

Diary

1916.

William Brewster,
145, Brattle Street,
Cambridge, Massachusetts,
U. S. A

(Should this diary be
lost, anyone finding and
returning it to the above
address would be suitably
rewarded for such trouble.).

THE
STANDARD

DIARY



FOR SALE BY ALL STATIONERS

PUBLISHED BY
THE STANDARD DIARY CO

FOR IDENTIFICATION.

My Name.....

My Residence.....

My Business Address.....

My Home Telephone.....

My Office Telephone.....

My Home Fire Alarm Box.....

My Office Fire Alarm Box.....

In case of accident or serious illness please notify.....

The make of my Automobile.....

Its Number.....

Number on case of my Watch.....

Number of the works.....

Number of my Bank Book.....

My Weight was.....On.....

Height.....feet.....inches.....

Size of Hat.....Gloves.....

" Hosiery.....Collar.....

" Cuffs.....Shoes.....

" Shirt.....Drawers.....

CALENDAR

1916

	JAN.							FEB.							MAR.							APRIL							MAY							JUNE							DEC.							NOV.							OCT.							SEPT.							AUG.							JULY								Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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CALENDAR

1917

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RATES OF POSTAGE.

Official at time of printing. As changes are expected inquire at P. O.

United States and Possessions, Canada, Mexico,
Cuba, and Shanghai, China.

First Class (letters, etc.)	per ounce	2c
Second " (newspapers, periodicals)	4 "	1c
Third " (all circulars and miscellaneous printed matter)	2 "	1c
Fourth " (merchandise, books, etc.)	see Parcel Post	
Registration Fee (extra postage)		10c
Special Delivery (" ")		10c
Postal Cards (reply cards 2c)		1c
Local or Drop Letters (where no free delivery)	"	1c
Postal Savings Bank (inquire at P. O.)		

MONEY ORDERS.—For sums not exceeding \$2.50, 3 cents; over \$2.50 to \$5, 5 cents; over \$5 to \$10, 8 cents; over \$10 to \$20, 10 cents; over \$20 to \$30, 12 cents; over \$30 to \$40, 15 cents; over \$40 to \$50, 18 cents; over \$50 to \$60, 20 cents; over \$60 to \$75, 25 cents; over \$75 to \$100, 30 cents.

REFORWARDING.—Letters will be forwarded from one post office to another upon the *written* request of the *person addressed*, without additional charge; but unclaimed packages *cannot be returned to the sender* until stamps are furnished to pay the return postage.

PARCEL POST, for United States and Possessions.
(Inquire at Post Office.)

Owing to frequent changes in rates, weights, etc., we deem it impracticable to attempt to give accurate information.

Postage to Foreign Countries.

Letters for Canada, Cuba, Mexico, British Isles, Newfoundland,	per ounce	2c
“ for Germany (if sent by German steamer 2c per oz.)	“	5c
“ for other countries	“	5c
each additional ounce or fraction		3c

Postal cards (reply cards, 4c)	2c
Newspapers and printed matter	2 ounces 1c
Samples merchandise	first 4 " 2c
	every additional 2 " 1c
Commercial papers	first 10 ounces or fraction 5c
	every additional 2 ounces 1c
Registration Fee (extra postage)	10c
Reply Coupons (to prepay return letter) inquire at P. O.	
Parcels Post (inquire at P. O.)	per lb. 12c
Money Orders (inquire at P. O.)	

POPULATION OF THE UNITED STATES.

	1910	1900
Alabama.....	2,138,093	1,828,697
Arizona.....	204,354	122,931
Arkansas.....	1,574,449	1,311,564
California.....	2,377,549	1,485,053
Colorado.....	799,024	539,700
Connecticut.....	1,114,756	908,420
Delaware.....	202,322	184,735
Dist. of Columbia.....	331,069	278,718
Florida.....	752,619	528,542
Georgia.....	2,609,121	2,216,331
Idaho.....	325,594	161,772
Illinois.....	5,638,591	4,821,550
Indiana.....	2,700,876	2,516,462
Iowa.....	2,224,771	2,231,853
Kansas.....	1,690,949	1,470,495
Kentucky.....	2,289,905	2,147,174
Louisiana.....	1,656,388	1,381,625
Maine.....	742,371	694,466
Maryland.....	1,294,450	1,188,044
Massachusetts.....	3,366,416	2,805,346
Michigan.....	2,810,173	2,420,982
Minnesota.....	2,075,708	1,751,394
Mississippi.....	1,797,114	1,551,270
Missouri.....	3,293,335	3,106,665
Montana.....	376,053	243,329
Nebraska.....	1,192,214	1,066,300
Nevada.....	81,875	42,335
New Hampshire.....	430,572	411,588
New Jersey.....	2,537,167	1,883,669
New Mexico.....	327,396	195,310
New York.....	9,113,614	7,268,894
North Carolina.....	2,206,287	1,893,810
North Dakota.....	577,056	319,146
Ohio.....	4,767,121	4,157,545
Oklahoma.....	1,657,155	790,391
Oregon.....	672,765	413,536
Pennsylvania.....	7,666,111	6,302,115
Rhode Island.....	642,674	428,556
South Carolina.....	1,515,400	1,340,316
South Dakota.....	583,888	401,570
Tennessee.....	2,184,789	2,020,616
Texas.....	3,896,542	3,048,710
Utah.....	373,351	276,749
Vermont.....	355,956	343,641
Virginia.....	2,061,612	1,854,184
Washington.....	1,141,990	518,103
West Virginia.....	1,221,119	958,800
Wisconsin.....	2,333,860	2,069,042
Wyoming.....	145,965	92,531
Alaska.....	64,356	63,592
Hawaii.....	191,909	154,001
Porto Rico.....	1,118,012	953,243
Military and Naval.....	55,608	91,219
United States.....	93,401,414	77,256,630

POPULATION OF PRINCIPAL CITIES.

	1910	1900
Akron, O.....	69,067	42,728
Albany, N. Y.....	100,253	94,151
Allentown, Pa.....	51,913	35,416
Altoona, Pa.....	52,127	38,973
Atlanta, Ga.....	154,839	89,872
Atlantic City, N. J.....	44,461	27,838
Augusta, Ga.....	41,040	39,441
Baltimore, Md.....	558,485	508,957
Bay City, Mich.....	45,166	27,628
Bayonne, N. J.....	55,545	32,722
Binghamton, N.Y.....	48,443	39,647
Birmingham, Ala.....	132,685	38,415
Boston, Mass.....	670,585	560,892
Bridgeport, Conn.....	102,054	70,996
Brockton, Mass.....	56,878	40,063
Brooklyn, N.Y.....	1,634,351	1,166,582
Buffalo, N.Y.....	423,715	352,387
Butte, Mont.....	39,165	30,470
Cambridge, Mass.....	104,839	91,886
Camden, N. J.....	94,538	75,935
Canton, O.....	50,217	30,667
Charleston, S. C.....	58,833	55,807
Chattanooga, Tenn.....	44,604	30,154
Chelsea, Mass.....	32,452	34,072
Chester, Pa.....	38,537	33,988
Chicago, Ill.....	2,185,283	1,698,575
Cincinnati, O.....	364,463	325,902
Cleveland, O.....	560,663	381,768
Columbus, O.....	181,548	125,560
Council Bluffs, Ia.....	29,292	25,802
Covington, Ky.....	53,270	42,928
Dallas, Tex.....	32,104	42,638
Davenport, Ia.....	43,028	35,254
Dayton, O.....	116,577	85,933
Denver, Col.....	213,381	133,859
Des Moines, Ia.....	86,368	62,139
Detroit, Mich.....	465,766	285,704
Dubuque, Ia.....	38,494	36,297
Duluth, Minn.....	78,466	52,969
East St. Louis, Ill.....	58,547	29,655
Elizabeth, N. J.....	73,409	52,130
Elmira, N. Y.....	37,176	35,672
Erie, Pa.....	66,525	52,733
Evansville, Ind.....	69,647	59,007
Fall River, Mass.....	119,295	104,863
Fitchburg, Mass.....	37,826	31,531
Fort Wayne, Ind.....	63,933	45,115
Fort Worth, Tex.....	73,312	26,688
Galveston, Tex.....	36,981	37,789
Gloucester, Mass.....	24,398	26,121
Grand Rapids, Mich.....	112,571	87,565
Hamilton, O.....	35,279	23,914
Harrisburg, Pa.....	64,186	50,167
Hartford, Conn.....	98,915	79,850
Haverhill, Mass.....	44,115	37,175
Hoboken, N. J.....	70,324	59,364

POPULATION OF PRINCIPAL CITIES.—CONTINUED.

	1910	1900
Holyoke, Mass.	57,730	45,712
Houston, Tex.	78,800	44,633
Indianapolis, Ind.	233,650	169,164
Jackson, Mich.	31,433	25,180
Jacksonville, Fla.	57,699	28,429
Jersey City, N. J.	267,779	206,433
Johnstown, Pa.	55,482	35,936
Joliet, Ill.	34,670	29,353
Kalamazoo, Mich.	39,437	24,404
Kansas City, Kan.	82,331	51,418
Kansas City, Mo.	248,581	163,752
Knoxville, Tenn.	36,346	32,637
La Crosse, Wis.	30,417	28,895
Lancaster, Pa.	47,227	41,459
Lawrence, Mass.	35,892	62,559
Lexington, Ky.	35,099	26,369
Lincoln, Neb.	43,973	40,169
Little Rock, Ark.	45,941	38,307
Los Angeles, Cal.	319,198	102,479
Louisville, Ky.	223,923	204,731
Lowell, Mass.	106,294	94,969
Lynn, Mass.	89,336	68,513
Macon, Ga.	40,665	23,272
Madison, Wis.	25,531	19,164
Malden, Mass.	44,404	33,684
Manchester, N. H.	70,063	56,987
McKeesport, Pa.	42,694	34,227
Memphis, Tenn.	131,105	102,320
Meriden, Conn.	27,265	24,296
Milwaukee, Wis.	373,857	285,315
Minneapolis, Minn.	301,408	202,718
Mobile, Ala.	51,521	38,469
Montgomery, Ala.	38,136	30,346
Nashville, Tenn.	110,364	80,865
Newark, N. J.	347,469	246,070
New Bedford, Mass.	96,652	62,442
New Britain, Conn.	43,916	25,998
Newcastle, Pa.	36,280	28,339
New Haven, Conn.	133,605	108,027
New Orleans, La.	339,075	287,104
Newton, Mass.	39,806	33,587
New York, N. Y.	4,766,883	3,437,202
Niagara Falls, N. Y.	30,445	19,457
Norfolk, Va.	67,452	46,624
Oakland, Cal.	150,174	66,960
Oklahoma City, Okla.	64,205	10,037
Omaha, Neb.	124,096	102,555
Pasadena, Cal.	30,291	9,117
Passaic, N. J.	54,773	27,777
Pateron, N. J.	125,600	105,171
Pawtucket, R. I.	51,622	39,231
Peoria, Ill.	66,950	56,100
Perth Amboy, N. J.	32,121	17,699
Philadelphia, Pa.	1,549,008	1,293,697
Pittsburg and Allegheny, Pa.	533,905	451,512
Portland, Me.	58,571	50,145
Portland, Ore.	207,214	90,426

POPULATION OF PRINCIPAL CITIES.—CONTINUED.

	1910	1900
Providence, R. I.	224,326	175,597
Pueblo, Col.	44,395	28,157
Quincy, Ill.	36,587	36,252
Quincy, Mass.	32,642	23,899
Racine, Wis.	38,002	29,102
Reading, Pa.	96,071	78,961
Richmond, Va.	127,628	85,050
Rochester, N. Y.	218,149	162,608
Rockford, Ill.	45,401	31,051
Rutland, Vt.	13,546	11,499
Sacramento, Cal.	44,696	29,282
Saginaw, Mich.	50,510	42,345
Saint Joseph, Mo.	77,403	102,979
Saint Louis, Mo.	687,029	575,238
Saint Paul, Minn.	214,744	163,065
Salem, Mass.	43,697	35,956
Salt Lake City, Utah.	92,777	53,531
San Antonio, Tex.	96,614	53,321
San Diego, Cal.	39,578	17,700
San Francisco, Cal.	416,912	342,782
San Jose, Cal.	28,946	21,500
Savannah, Ga.	65,064	54,244
Schenectady, N. Y.	72,826	31,682
Scranton, Pa.	129,867	102,026
Seattle, Wash.	237,194	80,671
Sioux City, Ia.	47,828	33,111
Somerville, Mass.	77,236	61,643
South Bend, Ind.	53,684	35,999
Spokane, Wash.	104,402	36,848
Springfield, Ill.	51,678	34,159
Springfield, Mass.	88,926	62,059
Springfield, O.	46,921	38,253
Superior, Wis.	40,384	*36,551
Syracuse, N. Y.	137,249	108,374
Tacoma, Wash.	83,743	37,714
Tampa, Fla.	37,782	15,839
Taunton, Mass.	34,259	31,036
Terre Haute, Ind.	58,157	36,673
Toledo, O.	168,497	131,822
Topeka, Kan.	43,684	33,608
Trenton, N. J.	96,813	73,307
Troy, N. Y.	76,813	60,651
Utica, N. Y.	74,419	56,383
Waltham, Mass.	27,834	23,481
Washington, D. C.	331,069	278,718
Waterbury, Conn.	73,141	45,859
West Hoboken, N. J.	35,403	23,094
Wheeling, W. Va.	41,641	38,878
Wichita, Kan.	52,450	24,671
Wilkesbarre, Pa.	67,105	51,721
Williamsport, Pa.	31,860	28,757
Wilmington, Del.	87,411	76,508
Woonsocket, R. I.	38,125	28,204
Worcester, Mass.	145,986	118,421
Yonkers, N. Y.	79,803	47,931
York, Pa.	44,750	33,708
Youngstown, O.	79,066	44,885

* 1905

THE LARGEST CITIES IN THE WORLD.

1910 Census data for cities in the United States. Late official census or official estimates for all foreign cities.

New York	4,766,883	Montreal	470,480
London	4,521,685	Detroit	465,766
Paris	2,888,110	Sheffield	454,632
Tokio, Japan	2,186,079	Sao Paulo, Brazil	450,000
Chicago	2,185,283	Leeds	445,550
Berlin	2,071,257	Kioto, Japan	442,462
Vienna	2,031,498	Rotterdam	436,018
St. Petersburg	1,962,400	Turin	427,106
Philadelphia	1,549,008	Buffalo	423,715
Moscow	1,533,400	San Francisco	416,912
Buenos Ayres	1,314,163	Frankfort-on-Main	414,576
Peking	1,300,000	Lodz, Poland	408,330
Osaka, Japan	1,226,590	Dublin	403,030
Calcutta	1,222,313	Yokohama	394,303
Constantinople	1,200,000	Belfast	386,947
Rio Janeiro	1,128,637	Nagoya, Japan	378,231
Canton	1,000,000	Kobe, Japan	378,197
Bombay	979,445	Milwaukee	373,857
Hamburg	931,035	Hong Kong	366,145
Glasgow	784,496	Cincinnati	363,591
Buda-Pesth	880,371	Dusseldorf	358,728
Warsaw	872,478	Bristol, Eng.	357,048
Tientsin	800,000	Lisbon	356,009
Liverpool	746,421	Montevideo	352,487
Manchester, Eng.	714,333	Newark, N.J.	347,469
St. Louis	687,029	Stockholm	346,599
Naples	678,031	New Orleans	339,075
Boston	670,585	Bucharest	338,109
Cairo, Egypt	654,476	Nuremberg	333,142
Shanghai	651,000	Santiago, Chili	332,724
Brussels	646,400	Alexandria	332,246
Sidney	636,353	Riga	331,300
Bangkok	628,675	Washington	331,069
Melbourne	600,160	Palermo	321,000
Milan	597,325	Edinburgh	320,318
Munich	596,467	Havana	319,884
Leipzig	589,850	Los Angeles	319,198
Amsterdam	580,960	Antwerp	308,618
Madrid	571,539	Charlottenburg, Prussia	305,978
Cleveland	560,663	Hanover, Germany	302,375
Barcelona	560,000	Minneapolis	301,408
Copenhagen	559,000	Essen, Germany	294,653
Baltimore	558,485	West Ham, Eng.	289,030
Marseilles	550,619	The Hague	288,577
Dresden	550,565	Bradford	288,458
Rome	542,123	Chemnitz	287,807
Pittsburgh	533,905	Stuttgart	286,218
Birmingham, Eng.	526,000	Teheran	280,000
Lyons	523,796	Hull	277,991
Madras	518,660	Genoa	272,221
Cologne	516,527	Jersey City	267,779
Breslau	512,000	Newcastle	266,603
Odessa	505,600	Nottingham	259,904
Kiev, Russia	505,060	Lucknow	259,798
Hyderabad	500,000	Prague	223,741
Mexico City	470,659		

PRESIDENTS OF THE UNITED STATES.

No.	NAME.	Born.	Inaugurated.	Term of Office.	Died.	Native of	Residence when elected.	Political Party.
1	GEORGE WASHINGTON	Feb. 22, 1732	April 30, 1789	8 years.	Dec. 14, 1799	Virginia.	Virginia.	Federal.
2	JOHN ADAMS	Oct. 3, 1735	Mar. 4, 1797	4 " "	July 4, 1826	Mass.	Mass.	Republican.
3	THOMAS JEFFERSON	April 13, 1743	" " " "	4 " "	July 4, 1826	Virginia.	Virginia.	"
4	JAMES MONROE	Mar. 18, 1758	" " " "	4 " "	June 28, 1831	"	"	Coalition.
5	JAMES MADISON	Mar. 16, 1751	" " " "	4 " "	July 27, 1836	Mass.	Mass.	Democrat.
6	JOHN QUINCY ADAMS	Jan. 11, 1767	" " " "	4 " "	Feb. 23, 1848	S. Carolina.	Tennessee.	Whig.
7	ANDREW JACKSON	Mar. 15, 1767	" " " "	4 " "	June 8, 1845	New York.	New York.	Democrat.
8	MARTIN VAN BUREN	Dec. 5, 1782	" " " "	4 " "	July 24, 1862	Ohio.	Ohio.	Whig.
9	WM. H. HARRISON	Feb. 9, 1773	" " " "	4 " "	April 4, 1841	Virginia.	Virginia.	Democrat.
10	JOHN TYLER	Mar. 29, 1790	Apr. 6, 1841	3 yrs. 11 mos.	Jan. 18, 1862	N. Carolina.	Tennessee.	Democrat.
11	JAMES K. POLK	Nov. 2, 1795	Mar. 4, 1845	4 years.	June 15, 1849	Virginia.	Louisiana.	Whig.
12	ZACHARY TAYLOR	Sept. 24, 1784	Mar. 4, 1849	1 year 4 mos.	July 9, 1850	New York.	New York.	Democrat.
13	MILLARD FILLMORE	Feb. 7, 1800	July 9, 1850	2 years 8 mos.	Mar. 7, 1874	N. Hamp.	Penn.	Democrat.
14	FRANKLIN PIERCE	Nov. 23, 1791	Mar. 4, 1853	4 years.	Oct. 3, 1869	Penn.	Illinois.	Republican.
15	JAMES BUCHANAN	Apr. 23, 1791	" " " "	4 " "	June 1, 1865	Kentucky.	Tennessee.	"
16	ABRAHAM LINCOLN	Feb. 12, 1809	Mar. 4, 1861	4 yrs. 4 mos.	April 15, 1865	N. Carolina.	Ohio.	"
17	ANDREW JOHNSON	Dec. 29, 1808	Apr. 15, 1865	3 yrs. 10 mos.	July 31, 1875	Ohio.	New York.	Democrat.
18	ULYSSES S. GRANT	Apr. 27, 1822	Mar. 4, 1869	8 years.	Jan. 23, 1885	Vermont.	Indiana.	Republican.
19	RUTHERF'D B. HAYES	Oct. 4, 1822	" " " "	4 " "	Jan. 17, 1893	"	New York.	Democrat.
20	JAMES A. GARFIELD	Nov. 19, 1831	Mar. 4, 1881	6 mos. 5 mos.	Sept. 19, 1881	New Jersey.	Ohio.	Republican.
21	CHESTER A. ARTHUR	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5 mos.	Nov. 16, 1886	Ohio.	New York.	Democrat.
22	GROVER CLEVELAND	Mar. 18, 1837	" " " "	4 years.	June 24, 1901	New York.	Ohio.	Republican.
23	BENJAMIN HARRISON	Aug. 20, 1833	" " " "	4 " "	June 24, 1901	Ohio.	New York.	Republican.
24	GROVER CLEVELAND	Mar. 18, 1837	" " " "	4 " "	Sept. 14, 1901	New York.	Ohio.	Republican.
25	WILLIAM MCKINLEY	Jan. 27, 1827	" " " "	4 yrs. 6 mos.	Sept. 14, 1901	Ohio.	New York.	Republican.
26	THEODORE ROOSEVELT	Oct. 27, 1858	Sept. 14, 1901	7 yrs. 5 mos.	" " " "	Ohio.	New Jersey.	Democrat.
27	WM. HOWARD TAFT	Sept. 15, 1857	Mar. 4, 1909	4 yrs.	" " " "	Ohio.	New Jersey.	Democrat.
28	WOODROW WILSON	Dec. 28, 1856	" " " "	4, 1913	" " " "	Ohio.	New Jersey.	Democrat.

INTEREST TABLE.

FOUR PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	11
3 "	0	0	0	0	0	0	0	0	0	0	3	33
5 "	0	0	0	0	0	0	0	0	0	0	5	50
1 Mo.	0	1	1	1	1	2	2	2	3	3	11	111
2 "	1	1	2	2	3	4	4	5	6	6	07	067
3 "	1	2	3	4	5	6	7	8	9	10	1 00	10 00
4 "	1	2	3	4	5	6	7	8	9	10	1 00	10 00
6 "	2	4	6	8	10	12	14	16	18	20	2 00	20 00
9 "	3	6	9	12	15	18	21	24	27	30	3 00	30 00
1 Yr.	4	8	12	16	20	24	28	32	36	40	4 00	40 00

FIVE PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	14
3 "	0	0	0	0	0	0	0	0	0	0	4	42
5 "	0	0	0	0	0	0	0	1	1	1	7	69
1 Mo.	1	1	1	2	2	3	3	4	4	4	14	139
2 "	1	1	2	3	3	4	5	6	7	8	83	833
3 "	1	2	3	4	5	6	7	8	9	10	1 25	12 50
4 "	1	2	3	4	5	6	7	8	9	10	1 25	12 50
6 "	2	4	6	8	10	12	14	16	18	20	2 50	25 00
9 "	3	6	9	12	15	18	21	24	27	30	3 75	37 50
1 Yr.	5	10	15	20	25	30	35	40	45	50	5 00	50 00

SIX PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	2	17
3 "	0	0	0	0	0	0	0	0	0	0	5	50
5 "	0	0	0	0	0	1	1	1	1	1	8	83
1 Mo.	0	1	1	1	1	1	1	2	2	2	17	167
2 "	1	1	2	2	3	3	4	4	5	5	50	5 00
3 "	1	2	3	4	5	6	7	8	9	10	1 00	10 00
4 "	1	2	3	4	5	6	7	8	9	10	1 00	10 00
6 "	2	4	6	8	10	12	14	16	18	20	2 00	20 00
9 "	3	6	9	12	15	18	21	24	27	30	3 00	30 00
1 Yr.	6	12	18	24	30	36	42	48	54	60	6 00	60 00

INTEREST LAWS OF ALL THE STATES, AND DAYS OF GRACE.

STATES AND TERRITORIES.	DAYS OF GRACE.	RATES OF INTEREST.		STATUTES OF LIMITATIONS.	
		Legal.	SPECIAL OR CONTRACT.	Judge, months, years.	Notes, years.
Alabama . . .	No	No	8 per ct.	20	6*
Alaska . . .	No	No	12 per ct.	10	6
Arizona . . .	No	No	No limit.	5	4
Arkansas . . .	No	No	10 per ct.	10	5
California . . .	No	No	No limit.	5	4
Colorado . . .	No	No	No limit.	20	6
Connecticut . . .	No	No	No limit.	(a)	(b)
Delaware . . .	No	No	6 per ct.	10	6†
Dist. of Columbia . . .	No	No	10 per ct.	12	3
Florida . . .	No	No	10 per ct.	20	5
Georgia . . .	No	No	8 per ct.	7	6†
Hawaiian Isl'nds . . .	No	No	12 per ct.	...	...
Idaho . . .	No	No	12 per ct.	6	5
Illinois . . .	No	No	7 per ct.	20	10
Indiana . . .	No	No	8 per ct.	20	10
Iowa . . .	No	No	8 per ct.	20†	10
Kansas . . .	No	No	10 per ct.	5	5
Kentucky . . .	No	No	6 per ct.	15	15
Louisiana . . .	No	No	8 per ct.	10	5
Maine . . .	Yes	No	No limit.	6-20	6
Maryland . . .	No	No	6 per ct.	12	3
Massachusetts . . .	Yes	No	No limit.	20	6
Michigan . . .	No	No	7 per ct.	10	6
Minnesota . . .	No	No	10 per ct.	10	6
Mississippi . . .	Yes	Yes	10 per ct.	7	6
Missouri . . .	No	No	8 per ct.	10	10
Montana . . .	No	No	No limit.	10	8
Nebraska . . .	No	No	10 per ct.	5	5
Nevada . . .	No	No	No limit.	6	4
New Hampshire . . .	Yes	No	6 per ct.	20	6
New Jersey . . .	No	No	6 per ct.	20	6
New Mexico . . .	No	No	12 per ct.	7	6
New York . . .	No	No	6 per ct.	20	6
North Carolina . . .	No	No	6 per ct.	10	3*
North Dakota . . .	No	No	12 per ct.	10	6
Ohio . . .	No	No	8 per ct.	6-15	15
Oklahoma . . .	No	No	10 per ct.	1-5	5
Oregon . . .	No	No	6 per ct.	10	6
Pennsylvania . . .	No	No	6 per ct.	5	6†
Philippine Isl'nds . . .	No	No	No limit.	...	...
Porto Rico . . .	No	No	12 per ct.	...	...
Rhode Island . . .	Yes	Yes	No limit.	20	6
South Carolina . . .	No	No	8 per ct.	10	6
South Dakota . . .	No	No	7 per ct.	10	6
Tennessee . . .	No	No	6 per ct.	10	6
Texas . . .	Yes	Yes	10 per ct.	10	4
Utah . . .	No	No	12 per ct.	8	6
Vermont . . .	No	No	6 per ct.	8	6
Virginia . . .	No	No	6 per ct.	20	6
Washington . . .	No	No	12 per ct.	6	3
West Virginia . . .	No	No	6 per ct.	10	6
Wisconsin . . .	No	No	10 per ct.	6-20	5
Wyoming . . .	No	No	12 per ct.	21	8

Any rate of interest on call loans of \$5.00 or upward, on collateral security.
 (a) No limit. (b) Negotiable notes, 6 years. * Under seal, 10 years.
 † Under seal, 20 years. ‡ In Courts of Record, 20 years; Justice's Court, 10 years. § Accounts between merchants, 2 years.

WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

4	In. = 1 Hand.	3	Feet = 1 Yard.
7.92	In. = 1 Link.	5½	Yds. = 1 Rod or Pole
18	In. = 1 Cubit.	40	Poles = 1 Furlong
12	Ft. = 1 Foot.	8	Fur. = 1 Mile.
6	Ft. = 1 Fathom.	60	1-6 Miles = 1 Degree.
	60 Geographical Miles = 1 Degree.		
	1760 Yards } = 1 Mile.		
	5280 Feet }		

MEASURE OF SURFACE.

144	Square Inches = 1 Square Foot.
9	Square Feet = 1 Square Yard.
30½	Square Yards = 1 Sq. Rod, Perch or Pole
40	Square Rods = 1 Square Rood.
4	Square Roods = 1 Acre.
	Gunter's Chain = 22 Yards or 100 Links.
10	Square Chains = 1 Acre.
640	Acres = 1 Square Mile.
272½	Square Feet = 1 Square Rod.
43,560	Square Feet = 1 Acre.

MEASURE OF SOLIDITY.

1728	Cubic Inches = 1 Cubic Foot.
27	Cubic Feet = 1 Cubic Yard.

AVOIRDUPOIS WEIGHT.

27½	Grains = 1 Drachm (dr.) or 27½ Grains
16	Drachms = 1 Ounce (oz.) or 437½ "
16	Ounces = 1 Pound (lb.) or 7000 "
28	Pounds = 1 Quarter (qr.).
4	Quarters = 1 Hundred-Weight (cwt)
20	Cwts. = 1 Ton.
2240	Pounds = 1 Ton.

TROY WEIGHT.

24	Grains = 1 Pennyweight, or 24 Grains.
20	Pennywts = 1 Ounce, or 480 "
12	Ounces = 1 Pound, or 5760 "

APOTHECARIES' WEIGHT.

20	Grains = 1 Scruple.	8	Drachms = 1 Ounce.
3	Scruples = 1 Drachm.	12	Ounces = 1 Pound.

DIAMOND WEIGHT.

16	Parts = 1 Grain (4-5ths Grain Troy.)
4	Grains = 1 Carat (3 1-5th Grains Troy.)

LIQUID MEASURE.

4	Gills = 1 Pint.	3½	Gallons = 1 Barrel.
2	Pints = 1 Quart.	54	Gallons = 1 Hhd.
4	Quarts = 1 Gallon.	252	Gallons = 1 Tun.

DRY MEASURE.

8	Quarts = 1 Peck.	8	Bushels = 1 Quarter.
4	Pecks = 1 Bushel.	36	Bushels = 1 Chaldron.
	1 Bushel = 2150.42 Cubic Inches.		

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several States of the Union.

STATES.	Barley.	Buckwheat.	Coal.	Corn, shelled.	Corn Meal.	Onions.	Outs.	Potatoes.	Rye.	Wheat.	Salt.	Turnips.	Beans, wh.	Clover Sd.	Timothy.
Maine.....	48	48	..	56	50	52	30	60	..	60	..	50	64	..	..
New Hampshire.....	..	..	..	56	50	..	30	60	56	60	..	..	60	..	..
Vermont.....	48	48	..	..	..	..	32	60	56	60	70	..	64	60	42
Massachusetts.....	48	48	..	56	50	52	32	60	56	60	..	..	..	..	..
Connecticut.....	..	45	..	56	..	..	32	60	56	56	..	..	..	..	..
New York.....	48	48	..	58	..	..	32	60	56	60	..	..	62	60	44
New Jersey.....	48	50	..	56	..	..	30	60	56	60	..	..	..	64	..
Pennsylvania.....	47	48	..	56	..	..	30	56	56	60	85	..	..	62	..
Delaware.....	..	..	..	56	..	..	..	..	..	60	..	..	..	..	..
Maryland.....	48	48	..	56	..	57	32	60	56	60	56	..	62	64	45
Dist. Columbia.....	47	48	..	56	48	57	32	56	56	60	50	55	62	60	45
Virginia.....	48	48	..	56	50	..	32	60	56	60	..	..	56	60	45
West Virginia.....	48	52	80	56	48	..	32	60	56	60	..	60	60	60	45
North Carolina.....	48	50	..	54	46	..	30	..	56	60	..	..	64	..	..
South Carolina.....	48	56	80	56	50	57	33	60	56	60	50	..	60	60	..
Georgia.....	40	..	80	56	48	57	35	56	..	60	56	..	..	60	45
Louisiana.....	32	..	..	56	..	..	32	..	..	60	..	..	..	..	..
Arkansas.....	48	52	80	56	50	57	32	60	56	60	50	..	60	60	45
Tennessee.....	48	50	..	56	50	56	32	60	56	60	..	..	60	..	45
Kentucky.....	48	52	..	56	50	57	33	56	56	60	50	..	60	60	45
Ohio.....	48	50	..	56	..	..	32	60	56	60	..	..	60	60	45
Michigan.....	48	48	80	56	..	54	32	60	56	60	56	58	60	60	45
Indiana.....	48	50	70	56	50	48	32	60	56	60	50	..	60	60	..
Illinois.....	48	52	..	56	48	57	32	60	56	60	50	..	60	60	..
Wisconsin.....	48	50	..	56	..	..	32	60	56	60	..	..	60	..	..
Minnesota.....	48	42	..	56	..	..	32	60	56	60	..	..	60	..	..
Iowa.....	48	52	..	55	..	57	33	60	56	60	50	..	60	60	45
Missouri.....	48	52	..	56	..	57	32	60	56	60	50	..	60	60	45
Kansas.....	50	50	..	56	50	57	32	60	56	60	50	55	60	..	45
Nebraska.....	48	52	..	56	50	57	34	60	56	60	50	55	60	60	45
California.....	50	40	..	52	..	..	32	..	54	60	..	..	..	..	..
Oregon.....	46	42	..	56	..	..	36	60	56	60	..	..	60	..	..

HELP! In Case of Accidents.

Drowning. 1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms, from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils and pressing the "Adam's apple" back, (so as to close entrance to stomach) direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after HOURS of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give WARM drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds. Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive or linseed oil, plain or mixed with chalk or whiting.

Lightning. Dash cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects' Stings, etc. Apply weak ammonia, oil, salt water or iodine.

Fainting. Place flat on back; allow fresh air and sprinkle with water.

Electricity. Release from current, not touching body or wire with hands, metal or a wet stick. Handle body by its clothing, with rubber gloves and shoes if possible, if not, cover hands with dry woolen cloth, and stand on dry boards. Then induce artificial respiration as in a case of drowning. Rub limbs and massage body.

Tests of Death. Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead, the hole will remain, if alive, it will close up.

Cinders in the Eye. Roll soft paper up like a lamplighter and wet the tip to remove, or use a medicine dropper to draw it out. Rub the *other* eye.

Fire in one's Clothing. *Don't run*—especially not down stairs or out of doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. *Don't get excited.*

Fire in Kerosene. *Don't use water*, it will spread the flames. Dirt, sand or flour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

Suffocation from Inhaling Burning-Gas. Get into the fresh air as soon as possible and lie down. Keep warm. Take Ammonia,—twenty drops to a tumbler of water, at frequent intervals.

ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. INDUCE VOMITING, by tickling throat with feather or finger, drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and *vice versa*.

SPECIAL POISONS AND ANTIDOTES.

Acids. MURIATIC. OXALIC, }
ACETIC. SULPHURIC (Oil of Vit- } Soapsuds, Magnesia, Lime-water.
riol). NITRIC (Aqua Fortis). }

Prussic Acid. Ammonia in water. Dash water in face.

Carbolic Acid. Flour and water, mucilaginous drinks.

Alkalies. POTASH. LYR. } Vinegar or Lemon juice in water.
HARTSHORN. AMMONIA. }

Arsenic. } Milk, raw Eggs, Sweet Oil, Lime-water, Flour
Rat Poison. } and water.
Paris Green. }

Bug Poison. }
Lead. } Whites of Eggs, or Milk in large doses.
Saltpetre. }
Corrosive Sublimate. }
Sugar of Lead. }
Blue Vitriol. }

Chloroform. } Dash cold water on head and chest. Artificial
Chloral. } respiration. Piece of ice in rectum.
Ether. }

Carbonate of Soda. } Soapsuds and mucilaginous drinks.
Copperas. Cobalt. }

Iodine. } Starch and water. Astringent infusions.
Antimony. } Strong tea.
Tartar Emetic. }

Mercury AND ITS SALTS. Whites of Eggs. Milk. Mucilages.

Nitrate of Silver. } Salt and water.
Lunar Caustic. }

Opium. }
Morphine. } Strong coffee, hot bath. Keep awake and
Laudanum. } moving at any cost.
Paregoric. }
Soothing Powders }
or Syrups. }

Strychnine. } Mustard and water. Sulphate of Zinc.
Tinct. of Nux Vomica. } Absolute quiet. Plug the ears.

LEGAL HOLIDAYS.

In most States when the holiday falls on Sunday the Monday following is observed.

Legal holidays in some States are observed as such only by common consent, or when appointed by the Governor, and not by legislative enactment.

ALABAMA—Jan. 1 and 19, Feb. 22, Mardi-Gras, Good Friday, April 13 and 26, June 3, July 4, Labor Day, gen. election, Oct. 12, Thanksgiving, Dec. 25.
ALASKA—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 18, Thanksgiving, Dec. 25, gen. election.
ARIZONA—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, Labor Day, election day, Thanksgiving, Dec. 25.
ARKANSAS—Jan. 1 and 19, Feb. 22, Arbor Day, June 3, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, election day.
CALIFORNIA—Jan. 1, Feb. 12 and 22, Arbor Day, May 30, July 4, Labor Day, Sept. 9, Oct. 12, Thanksgiving, Dec. 25, gen. elec.
COLORADO—Jan. 1, Feb. 12 and 22, Arbor Day, May 30, July 4, Aug. 1, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. election.
CONNECTICUT—Jan. 1, Feb. 12 and 22, Good Friday, Fast Day, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25.
DELAWARE—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, election day.
DISTRICT OF COLUMBIA—Jan. 1, Feb. 22, Inauguration Day, May 30, July 4, Labor Day, Thanksgiving, Dec. 25.
FLORIDA—Jan. 1 and 19, Arbor Day, Feb. 22, Good Friday, Apr. 26, June 3, July 4, Labor Day, Thanksgiving, Dec. 25, gen. elec.
GEORGIA—Jan. 1 and 19, Feb. 22, April 26, June 3, July 4, Labor Day, any Thanksgiving, 1st Friday in Dec., Dec. 25.
HAWAII—Jan. 1, Feb. 22, May 30, June 11, July 4, Labor Day, Regatta Day, Thanksgiving, Dec. 25.
IDAHO—Jan. 1, Feb. 22, Arbor Day, May 30, June 15, July 4, July 15, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election.
ILLINOIS—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, election days.
INDIANA—Jan. 1, Feb. 12 and 22, public fast, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. elec.
IOWA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Thanksgiving, Dec. 25, general election.
KANSAS—Jan. 1, Feb. 12 and 22, May 30, public fast, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election.
KENTUCKY—Jan. 1, Feb. 22, May 30, July 4, public fast, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election.
LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi-Gras in New Orleans, Good Friday, June 3, July 4, All Saints Day, Labor Day (Orleans Parish), Thanksgiving, Dec. 25, general election.
MAINE—Jan. 1, Feb. 22, Arbor Day, April 19, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election.
MARYLAND—Jan. 1, Feb. 22, Arbor Day, Good Friday, May 30, July 4, Labor Day, Sept. 12, Oct. 12, Thanksgiving, Dec. 25, gen. elec.
MASSACHUSETTS—Feb. 22, April 19, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25.
MICHIGAN—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, Fasting and Thanksgiving Day, Dec. 25, elec. days.
MINNESOTA—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, Thanksgiving, Dec. 25, Arbor Day, gen. election.
MISSISSIPPI—Jan. 1, Feb. 22, April 26, June 3, July 4, Labor Day, Thanksgiving, Dec. 25.

MISSOURI—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, election days.
MONTANA—Jan. 1, Feb. 12 and 22, Arbor Day, May 30, public fast, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. election.
NEBRASKA—Jan. 1, Feb. 22, April 22, Arbor Day, May 30, July 4, Labor Day, Oct. 12, public fast, Thanksgiving, Dec. 25.
NEVADA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, Oct. 31, Thanksgiving, Dec. 25, general election.
NEW HAMPSHIRE—Jan. 1, Feb. 22, Fast Day, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. election.
NEW JERSEY—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, every Saturday p. m., general election.
NEW MEXICO—Jan. 1, Arbor Day, Feb. 22, May 30, Flag Day, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. election.
NEW YORK—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election, every Saturday p. m.
NORTH CAROLINA—Jan. 1 and 19, Feb. 22, April 12, May 10 and 20, July 4, Labor Day, Thanksgiving, Dec. 25, election day.
NORTH DAKOTA—Jan. 1, Feb. 12 and 22, May 30, election last Thursday in June, July 4, Arbor Day, Labor Day, Thanksgiving, public fast, Dec. 25, general election.
OHIO—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election.
OKLAHOMA—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, election day.
OREGON—Jan. 1, Feb. 22, May 30, July 4, Labor Day, public fast, Thanksgiving, Dec. 25, general election.
PENNSYLVANIA—Jan. 1, Feb. 12, spring election, Feb. 22, Good Friday, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, general election, every Saturday p. m.
PORTO RICO—Jan. 1, Feb. 22, Mar. 22, Good Friday, May 30, July 4, July 25, Labor Day, Oct. 12, Thanksgiving, Christmas.
RHODE ISLAND—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, State election, general election, Flag Day.
SOUTH CAROLINA—Jan. 1 and 19, Feb. 22, May 10, June 3, July 4, Labor Day, Thanksgiving, Dec. 25, gen. election.
SOUTH DAKOTA—Jan. 1, Feb. 12 and 22, May 30, Arbor Day, July 4, Labor Day, Thanksgiving, Dec. 25, general election.
TENNESSEE—Jan. 1, Feb. 22, Good Friday, 2d Friday in May, June 3, July 4, Labor Day, Thanksgiving, Dec. 25, general election, every Sunday p. m.
TEXAS—Jan. 1, Feb. 22, Mar. 2, April 21, June 3, July 4, Labor Day, Oct. 12, Dec. 25, day of fast and Thanksgiving, elec. day.
UTAH—Jan. 1, Feb. 12 and 22, April 15, May 30, July 4, July 24, Labor Day, Thanksgiving, Dec. 25.
VERMONT—Jan. 1, Feb. 22, Fast Day, May 30, July 4, Aug. 16, Labor Day, Oct. 12, Thanksgiving, Dec. 25.
VIRGINIA—Jan. 1 and 19, Feb. 22, May 30, July 4, Labor Day, Thanksgiving, Dec. 25, every Saturday p. m., gen. election.
WASHINGTON—Jan. 1, Feb. 12 and 22, Decoration Day, July 4, Labor Day, Oct. 12, Thanksgiving, Dec. 25, gen. election.
WEST VIRGINIA—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Oct. 12, Dec. 25, Thanksgiving, general election.
WISCONSIN—Jan. 1, Feb. 22, May 30, Arbor Day, July 4, Labor Day, election 1st Tuesday in Sept., Thanksgiving, Dec. 25, gen. elec.
WYOMING—Jan. 1, Feb. 12 and 22, Arbor Day, May 30, July 4, July 10, Labor Day, Thanksgiving, Dec. 25, general election.

RATE OF INCOME ON STOCKS.

Purchased at the following prices (par value being \$100), and bearing interest at the following rates.

Paid	2%	3%	4%	5%	6%	7%	8%	10%
\$50	4 00	6 00	8 00	10 00	12 00	14 00	16 00	20 00
50½	3 81	5 71	7 62	9 52	11 43	13 33	15 24	19 04
55	3 63	5 45	7 27	9 09	10 91	12 72	14 55	18 18
55½	3 48	5 22	6 96	8 70	10 43	12 17	13 91	17 40
60	3 33	5 00	6 67	8 33	10 00	11 67	13 33	16 66
62½	3 20	4 80	6 40	8 00	9 60	11 20	12 80	16 00
65	3 08	4 62	6 15	7 69	9 23	10 77	12 31	15 38
67½	2 96	4 44	5 93	7 41	8 89	10 37	11 85	14 82
70	2 86	4 29	5 71	7 14	8 57	10 00	11 43	14 28
72½	2 76	4 14	5 52	6 90	8 27	9 65	11 03	13 80
75	2 67	4 00	5 33	6 67	8 00	9 33	10 67	13 35
77½	2 58	3 87	5 10	6 45	7 74	9 03	10 32	12 90
80	2 50	3 75	5 00	6 25	7 50	8 75	10 00	12 50
82½	2 42	3 64	4 85	6 06	7 27	8 48	9 70	12 12
85	2 35	3 53	4 71	5 88	7 06	8 24	9 41	11 76
87½	2 29	3 43	4 57	5 71	6 86	8 00	9 14	11 42
90	2 22	3 33	4 44	5 56	6 67	7 78	8 89	11 11
92½	2 16	3 24	4 32	5 41	6 49	7 57	8 65	10 82
95	2 11	3 16	4 21	5 26	6 32	7 37	8 42	10 52
97½	2 05	3 08	4 10	5 13	6 15	7 18	8 21	10 26
100	2 00	3 00	4 00	5 00	6 00	7 00	8 00	10 00
102	1 96	2 94	3 92	4 90	5 88	6 86	7 84	9 80
104	1 92	2 88	3 85	4 81	5 77	6 73	7 69	9 62
106	1 88	2 83	3 77	4 72	5 66	6 60	7 55	9 44
108	1 85	2 78	3 70	4 63	5 56	6 48	7 41	9 26
110	1 82	2 73	3 64	4 55	5 45	6 36	7 27	9 10
115	1 74	2 61	3 48	4 35	5 22	6 09	6 96	8 69
120	1 67	2 50	3 33	4 17	5 00	5 83	6 67	8 33
125	1 60	2 40	3 20	4 00	4 80	5 60	6 40	8 00
130	1 54	2 31	3 08	3 85	4 62	5 38	6 15	7 70
135	1 48	2 22	2 96	3 70	4 44	5 19	5 93	7 40
140	1 43	2 14	2 86	3 57	4 29	5 00	5 71	7 14
145	1 38	2 07	2 76	3 45	4 14	4 83	5 52	6 90
150	1 33	2 00	2 67	3 33	4 00	4 67	5 33	6 66
155	1 29	1 94	2 58	3 23	3 87	4 52	5 16	6 46
160	1 25	1 87	2 50	3 12	3 75	4 37	5 00	6 25
165	1 21	1 82	2 42	3 03	3 64	4 24	4 85	6 06
170	1 18	1 76	2 35	2 94	3 53	4 12	4 71	5 88
175	1 14	1 71	2 29	2 86	3 43	4 00	4 57	5 72
180	1 11	1 67	2 22	2 78	3 33	3 89	4 44	5 55
185	1 08	1 62	2 16	2 70	3 24	3 78	4 32	5 40
190	1 05	1 58	2 11	2 63	3 16	3 68	4 21	5 26
195	1 03	1 54	2 05	2 56	3 08	3 59	4 10	5 12
200	1 00	1 50	2 00	2 50	3 00	3 50	4 00	5 00

BUSINESS LAW IN DAILY USE.

The following compilation of Business Law contains the essence of a large amount of legal verbiage:

A note by a minor is void.

It is a fraud to conceal a fraud.

A note made on Sunday is void.

Ignorance of the law excuses no one.

A contract made with a minor is void.

A contract made with a lunatic is void.

The acts of one partner bind all the rest.

Notes bear interest only when so stated.

An agreement without consideration is void.

A receipt for money is not always conclusive.

The law compels no one to do impossibilities.

Contracts made on Sunday cannot be enforced.

Signatures made with a lead pencil are good in law.

Principals are responsible for the acts of their agents.

No consideration is sufficient in law if it be illegal in its nature.

Checks or drafts must be presented for payment without unreasonable delay.

If the time of payment of a note is not inserted, it is held payable on demand.

A note obtained by fraud, or from a person in a state of intoxication, cannot be collected.

If the drawee of a check or draft has changed his residence, the holder must use due or reasonable diligence to find him.

A note indorsed in blank (the name of the indorser only written) is transferable by delivery, the same as if made payable to bearer.

Each individual in a partnership is responsible for the whole amount of the debts of the firm, except in cases of special partnership.

If a note is lost or stolen, it does not release the maker; he must pay it, if the consideration for which it was given and the amount can be proven.

Checks or drafts should be presented during business hours, but in this country, except in the case of banks, the time extends through the day and evening.

"Value received" is usually written in a note, and should be, but is not necessary. If not written it is presumed by the law, or may be supplied by proof.

If one who holds a check as payee or otherwise, transfers it to another, he has a right to insist that the check be presented that day, or, at farthest, on the day following.

The maker of an "accommodation" bill or note (one for which he has received no consideration, having lent his name or credit for the accommodation of the holder) is not bound to the person accommodated, but is bound to all other parties, precisely as if there was a good consideration.






VALUES OF FOREIGN COINS.

The following estimate, by the Director of the Mint, of the values of Foreign Coins, is proclaimed by the Secretary of the Treasury, in pursuance of the provisions of section 25 of the Act of August 27, 1894, to be the values of such coins in terms of the money of account of the United States, to be followed in estimating the value of all foreign merchandise exported to the United States on or after January 1, 1915, expressed in any of such metallic currencies:

COUNTRY.	STANDARD.	MONETARY UNIT.	VALUE.
			D. C. M.
Argentine Rep.	Gold	Peso	0 56 5
Austria-Hungary	Gold	Crown	0 20 3
Belgium	Gold	Franc	0 19 3
Bolivia	Gold	Boliviano	0 38 9
Brazil	Gold	Milreis	0 54 6
Canada	Gold	Dollar	1 0 0
Costa Rica	Gold	Colon	0 46 5
Chili	Gold	Peso	0 36 5
China	Silver	Tael.. { Shanghai. Haikwan. (Customs).	0 51 7 0 61 0
Colombia	Gold	Dollar	1 0 0
Denmark	Gold	Crown	0 26 8
Ecuador	Gold	Sucre	0 48 7
Egypt	Gold	Pound (100 piastres)	4 94 3
Finland	Gold	Mark	0 10 3
France	Gold	Franc	0 19 3
German Empire	Gold	Mark	0 24 8
Great Britain	Gold	Pound sterling	4 50 6
Greece	Gold	Drachma	0 15 3
Haiti	Gold	Gourde	0 05 5
India (British)	Gold	Rupia	0 32 4
Italy	Gold	Lira	0 19 3
Japan	Gold	Yen	0 41 8
Liberia	Gold	Dollar	1 0 0
Mexico	Gold	Peso	0 16 8
Netherlands	Gold	Guilder	0 49 2
Newfoundland	Gold	Dollar	1 0 4
Norway	Gold	Crown	0 29 8
Panama	Gold	Balboa	1 0 0
Persia	Gold	Koran	0 17 0
Peru	Gold	Libra	4 56 6
Philippine Islds.	Gold	Peso	0 50 0
Portugal	Gold	Escudo	1 8 0
Russia	Gold	Rubla	0 51 5
Siam	Gold	Peseta	0 19 3
Sweden	Gold	Crown	0 20 8
Switzerland	Gold	Franc	0 19 3
Turkey	Gold	Piastre	0 04 4
Uruguay	Gold	Peso	1 34 4
Venezuela	Gold	Bolivar	0 19 3

U.S. DEPARTMENT OF AGRICULTURE. WEATHER BUREAU.

INTERPRETATION OF SIGNALS

No. 1.	No. 2.	No. 3.	No. 4.	No. 5.
White Flag	Blue Flag	White and Blue Flag	Black Triangular Flag	White Flag Black Center
				
Clear or Fair.	Rain or Snow.	Local Rain or Snow.	Temperature.	Cold Wave.

No. 1, alone, indicates fair weather, stationary temperature.
No. 2, alone, indicates rain or snow, stationary temperature.
No. 3, alone, indicates local rain or snow, stationary temperature.
No. 1 with No. 4 above it, indicates fair weather, warmer.
No. 1 with No. 4 below it, indicates fair weather, colder.
No. 2 with No. 4 above it, indicates rain or snow, warmer.
No. 2 with No. 4 below it, indicates rain or snow, colder.
No. 3 with No. 4 above it, indicates local rain or snow, warmer.
No. 3 with No. 4 below it, indicates local rain or snow, colder.

DISPLAY EXAMPLES.

Colder. Fair Weather.	Rain or Snow. Warmer.	Local Rain or Snow. Colder.
		

TO FIND THE LENGTH OF DAY OR NIGHT.

At any time of the year add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning for the length of the night. These rules are equally true for apparent time.

STANDARD TIME.

IN this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME. Light face figures indicate A. M. time; heavy face P. M. time.

To change to STANDARD TIME add or subtract the *minutes* as given below, according as they are marked *plus* or *minus*.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—75th Meridian. Canada, between Quebec and Detroit,—U. S. east of Buffalo, N. Y.; Pittsburgh, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

MOUNTAIN STANDARD—105th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah; Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from "Mountain" limits to coast.

Correction for the following Cities.

Eastern Standard. 75° Longitude.		Central Standard. 90° Longitude.	
	Minutes.		Minutes.
Bangor, Me.....	- 23	Cleveland, Ohio.....	- 33
Augusta, Me.....	- 24	Columbus, Ohio.....	- 28
Portland, Me.....	- 19	Detroit, Mich.....	- 28
Boston, Mass.....	- 16	Toledo, Ohio.....	- 26
Newport, R. I.....	- 15	Dayton, Ohio.....	- 23
Providence, R. I.....	- 14	Cincinnati, Ohio.....	- 22
Concord, N. H.....	- 14	Louisville, Ky.....	- 18
New London, Conn.....	- 11	Indianapolis, Ind.....	- 16
Springfield, Mass.....	- 10	Chicago, Ill.....	- 10
Montpelier, Vt.....	- 9	Milwaukee, Wis.....	- 8
Hartford, Conn.....	- 9	Springfield, Ill.....	- 2
Montreal, Que.....	- 6	Memphis, Tenn.....	0
Albany, N. Y.....	- 5	New Orleans, La.....	0
New York, N. Y.....	- 4	St. Louis, Mo.....	- 1
Utica, N. Y.....	- 1	Rock Island, Ill.....	+ 3
Philadelphia, Pa.....	+ 1	Dubuque, Iowa.....	+ 3
Syracuse, N. Y.....	+ 5	Burlington, Iowa.....	+ 5
Baltimore, Md.....	+ 6	St. Paul, Minn.....	+ 12
Washington, D. C.....	+ 8	Des Moines, Iowa.....	+ 14
Rochester, N. Y.....	+ 11	Kansas City, Mo.....	+ 13
Buffalo, N. Y.....	+ 16	Galveston, Texas.....	+ 19
Pittsburg, Pa.....	+ 26	Omaha, Neb.....	+ 24

Mountain Standard. 105° Longitude.		Pacific Standard. 120° Longitude.	
Denver, Col.....	0	Sacramento, Cal.....	- 6
Salt Lake City, Utah.....	+ 28	San Francisco, Cal.....	+ 10

TIDE TABLE.

To Find High Water (Standard Time) Add to, or Subtract from, High Water at New York.

EASTERN STANDARD.		H. W.	Mean Range.
Eastport, Me.....	add	2 37	18.2
Bar Harbor, Me.....	"	2 31	10.5
Rockland, Me.....	"	2 44	9.7
Portland, Me.....	"	2 52	8.9
Portsmouth, N. H.....	"	3 13	7.8
Isle of Shoals, N. H.....	"	3 1	8.7
Newburyport, Mass.....	"	3 23	7.8
Rockport, Mass.....	"	2 55	8.8
Gloucester, Mass.....	"	2 57	8.9
Salem, Mass.....	"	3 0	9.0
Marblehead, Mass.....	"	2 52	9.2
Nahant, Mass.....	"	2 59	9.1
Hull, Mass.....	"	3 2	9.0
Plymouth, Mass.....	"	3 4	9.6
Provincetown, Mass.....	"	3 3	9.2
Nantucket, Mass.....	"	4 4	3.1
Vineyard Haven, Mass.....	"	3 25	1.7
Wood's Hole, North Side, Mass.....	sub.	0 18	3.9
Wood's Hole, South Side, Mass.....	add	0 9	1.8
New Bedford Entrance (Dumpling Rock), Mass.....	sub.	0 26	3.7
Newport, R. I.....	"	0 31	3.5
Bristol, R. I.....	"	0 13	4.1
Providence, R. I.....	"	0 2	4.6
Point Judith, R. I.....	"	0 29	3.1
New Shoreham, Block Island, R. I.....	"	0 41	3.0
New London, Conn.....	add	1 14	2.5
Norwich, Conn.....	"	1 55	3.1
New Haven, Conn.....	"	3 0	6.0
Montauk Point, L. I.....	"	0 7	2.0
Coney Island, L. I.....	sub.	0 29	4.7
West Point, N. Y.....	add	3 2	2.8
Long Branch, N. J.....	sub.	0 43	4.3
Cape May City, N. J.....	"	0 10	4.6
League Island, Pa.....	add	5 26	5.4
Philadelphia, Pa.....	"	5 56	5.3
Annapolis, Md.....	sub.	3 12	0.9
Baltimore, Md.....	"	1 20	1.2
Richmond, Va.....	"	3 32	3.7
Hatteras Inlet, N. C.....	"	0 47	2.0
Charleston (C. H. Wharf), S. C.....	"	0 15	5.2

CENTRAL STANDARD.			
Fort Pulaski (Savannah Ent.), Ga.....	sub.	1 18	6.9
Savannah (Dry Dock Wharf), Ga.....	"	0 23	6.5
Jacksonville, Fla.....	add	0 10	1.0
St. Augustine, Fla.....	sub.	0 14	4.2
Key West, Fla.....	add	0 47	1.2
Tampa Bay (Egmont Key), Fla.....	"	3 3	1.4
Cedar Keys (Depot Key), Fla.....	"	4 39	2.4

FESTIVALS AND FASTS.

Epiphany	Jan. 6
Septuagesima Sunday	Feb. 20
Quinquagesima—Shrove Sunday	Mar. 5
Ash Wednesday	Mar. 8
First Sunday in Lent	Mar. 12
St. Patrick	Mar. 17
Palm Sunday	Apr. 16
Good Friday	Apr. 23
Easter Sunday	Apr. 30
Low Sunday	May 28
Rogation Sunday	June 1
Ascension Day—Holy Thursday	June 11
Pentecost—Whit Sunday	June 18
Trinity Sunday	June 22
Corpus Christi	June 24
St. John the Baptist	Sept. 24
St. Andrew the Apostle	Nov. 30
St. Andrew the Apostle	Dec. 25
Christmas Day	

CHRONOLOGICAL CYCLES.

Dominical Letter	B, A
Lunar Cycle, or Golden Number	26
Solar Cycle	17
Roman Indiction	21
Julian Period	14
	429

THE SEASONS.

	Eastern Standard.	Central Standard.
Vernal Equinox	Mar. 20, 5h. A.	Mar. 20, 4h. A.
Summer Solstice	June 21, 1h. A.	June 21, 12h. A.
Autumnal Equinox	Sept. 23, 4h. M.	Sept. 23, 3h. M.
Winter Solstice	Dec. 21, 11h. A.	Dec. 21, 10h. A.
	Mountain Standard.	Pacific Standard.
Vernal Equinox	Mar. 20, 3h. A.	Mar. 20, 2h. A.
Summer Solstice	June 21, 11h. M.	June 21, 10h. M.
Autumnal Equinox	Sept. 23, 2h. M.	Sept. 23, 1h. M.
Winter Solstice	Dec. 21, 9h. A.	Dec. 21, 8h. A.

MORNING STARS.

MERCURY.—About March 1, June 29 and October 20.

VENUS.—July 3 to end of the year.

JUPITER.—April 1 to October 23.

EVENING STARS.

MERCURY.—About January 20, May 12 and September 9.

VENUS.—Until July 3.

JUPITER.—Until April 1; October 23 to the end of the year.

ECLIPSES FOR THE YEAR.

In the year 1916 there will be five Eclipses, three of the Sun and two of the Moon.

I. A PARTIAL ECLIPSE OF THE MOON, January 19-20. Visible to North America and the greater part of South America, and in part to the extreme western portions of Europe and the eastern portions of Asia. Occurring as follows:

	Standard	Eastern	Central	Mountain	Pacific
	d. h. m.	d. h. m.	d. h. m.	d. h. m.	d. h. m.
Moon enters penumbra	20 1 4 M.	20 0 4 M.	19 11 4 A.	19 10 4 A.	19 10 4 A.
Moon enters shadow	20 2 55 M.	20 1 55 M.	20 0 55 M.	19 11 55 A.	19 11 55 A.
Middle of eclipse	20 3 39 M.	20 2 39 M.	20 1 39 M.	20 0 39 M.	20 0 39 M.
Moon leaves shadow	20 4 24 M.	20 3 24 M.	20 2 24 M.	20 1 24 M.	20 1 24 M.
Moon leaves penumbra	20 6 14 M.	20 5 14 M.	20 4 14 M.	20 3 14 M.	20 3 14 M.

First contact of shadow, 5 degrees from the south point of the Moon's limb toward the east.

Magnitude of eclipse, 0.137 (Moon's diameter, 1.0).

II. A TOTAL ECLIPSE OF THE SUN, February 3. Visible to North America, the northwestern portion of South America, southwest Europe and the extreme northwestern part of Africa. The path of totality passes through the extreme northwestern part of South America and the Azores. Occurring, as a partial eclipse, as follows:

	Standard	Begins	Ends
		d. h. m.	d. h. m.
Boston	Eastern	10 26 M.	0 37 A.
New York	"	10 19 M.	0 31 A.
Philadelphia	"	10 16 M.	0 27 A.
Pittsburg	"	10 11 M.	0 14 A.
Washington	"	10 11 M.	0 23 A.
Charleston	"	9 53 M.	0 15 A.
Chicagoo	Central	9 52 M.	11 18 A.
Omaha	"	9 53 M.	10 53 M.
St. Paul	"	9 53 M.	10 40 M.
Omaha	"	8 55 M.	10 33 M.
St. Louis	"	8 54 M.	10 40 M.
New Orleans	"	8 32 M.	10 35 M.

III. A PARTIAL ECLIPSE OF THE MOON, July 14-15. Visible generally to North and South America, and in part to western Europe and Africa. Occurring as follows:

	Standard	Eastern	Central	Mountain	Pacific
	d. h. m.	d. h. m.	d. h. m.	d. h. m.	d. h. m.
Moon enters penumbra	14 9 18 A.	14 8 18 A.	14 7 18 A.	14 7 10 A.	14 7 10 A.
Moon enters shadow	14 10 19 A.	14 9 19 A.	14 8 19 A.	14 8 46 A.	14 8 46 A.
Middle of eclipse	14 11 46 A.	14 10 46 A.	14 9 46 A.	14 10 12 A.	14 10 12 A.
Moon leaves shadow	15 1 12 M.	15 0 12 M.	14 11 12 A.	14 11 13 A.	14 11 13 A.
Moon leaves penumbra	15 2 13 M.	15 1 13 M.	15 0 13 M.	14 11 13 A.	14 11 13 A.

First contact of shadow, 40 degrees from the north point of the Moon's limb toward the east.

Magnitude of eclipse, 0.8 (Moon's diameter, 1.0).

IV. AN ANNULAR ECLIPSE OF THE SUN, July 30. Invisible. Visible to Australia, New Zealand, East Indies and the Philippine Islands.

V. A PARTIAL ECLIPSE OF THE SUN, December 24. Invisible. Small and unimportant. Visible in the Southern Ocean.

The Calendars for the Latitude of Boston and Chicago

May be used for Central and Southern New England, Central New York, Southern Michigan, Southern Wisconsin, Northern Iowa, Northern Nebraska, South Dakota, and Wyoming.

The Calendars for the Latitude of New York and Philadelphia

May be used for Southern New York, New Jersey, Pennsylvania, Northern Ohio, Northern Indiana, Northern Illinois, Southern Iowa, and Southern Nebraska.

The Calendars for the Latitude of Washington, Cincinnati, etc.

May be used for Delaware, Maryland, the Virginias, Southern Ohio, Southern Indiana, Southern Illinois, Kentucky, Missouri, Kansas, and Colorado.

THE SIZE OF THE SEAS.

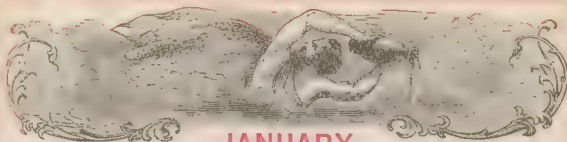
	Miles Long
Mediterranean.....	2,000
Caribbean.....	1,800
Red.....	1,400
Black.....	932
Baltic.....	600

AREA OF OCEANS IN SQUARE MILES.

Pacific.....	70,000,000
Atlantic.....	35,000,000
Indian.....	23,000,000
Southern.....	7,000,000
Arctic.....	4,000,000

SIZE OF THE GREAT LAKES.

	Miles Long.	Miles Wide.
Superior.....	380	120
Michigan.....	330	60
Ontario.....	170	40
Champlain.....	123	12
Erie.....	270	50
Huron.....	250	90
Winnipeg.....	240	40
Athabaska.....	200	20



JANUARY

MOON'S PHASES. (In Standard Time.)				EASTERN DIVISION.				CENTRAL DIVISION.			
NEW MOON.....				4d. 11h. 45m. P.M.				4d. 10h. 45m. P.M.			
FIRST QUARTER.....				11d. 10h. 38m. P.M.				11d. 9h. 38m. P.M.			
FULL MOON.....				20d. 3h. 29m. A.M.				20d. 2h. 29m. A.M.			
LAST QUARTER.....				27d. 7h. 35m. P.M.				27d. 6h. 35m. P.M.			

1916				LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
D. of M.	Day of Wk.	Local Mean Time.		Sun R.	Moon S.	Moon R.	Moon S.	Sun R.	Moon S.	Moon R.	Moon S.	Sun R.	Moon S.	Moon R.	Moon S.
		R. & S.	R. & S.												
1	SA.	7 30	3 32	7 12	7 24	3 27	4 9	7 19	3 22						
2	S	4 39	4 50	8 19	4 43	4 44	5 16	4 48	4 38						
3	Mo.	7 30	6 4	9 26	7 25	5 57	6 24	7 19	5 50						
4	Tu.	4 40	sets	10 31	4 45	sets	7 27	4 50	sets						
5	We.	7 30	5 21	11 28	7 25	5 26	8 23	7 19	5 33						
6	Th.	4 42	6 42	....	4 47	6 46	9 19	4 52	6 51						
7	Fr.	7 30	8 1	0 46	7 25	8 4	10 7	7 19	8 7						
8	SA.	4 44	9 15	1 33	4 49	9 16	10 50	4 54	9 18						
9	S	7 29	10 26	2 18	7 25	10 26	11 35	7 19	10 26						
10	Mo.	4 46	11 34	3 1	4 51	11 32	....	4 56	11 32						
11	Tu.	7 29	morn	3 44	7 24	morn	0 43	7 19	morn						
12	We.	4 48	0 40	4 32	4 53	0 37	1 31	4 58	0 35						
13	Th.	7 28	1 45	5 25	7 24	1 41	2 23	7 18	1 37						
14	Fr.	4 50	2 49	6 20	4 55	2 44	3 18	5 0	2 39						
15	SA.	7 28	3 51	7 17	7 23	3 45	4 14	7 18	3 39						
16	S	4 53	4 49	8 15	4 57	4 43	5 12	5 2	4 36						
17	Mo.	7 27	5 42	9 8	7 22	5 35	6 6	7 17	5 28						
18	Tu.	4 55	6 29	9 59	4 59	6 23	6 57	5 4	6 16						
19	We.	7 26	rises	10 46	7 21	rises	7 41	7 16	rises						
20	Th.	4 57	5 24	11 26	5 2	5 28	8 20	5 6	5 34						
21	Fr.	7 25	6 29	....	7 20	6 32	9 4	7 15	6 36						
22	SA.	5 0	7 34	0 25	5 4	7 36	9 41	5 8	7 38						
23	S	7 23	8 38	1 1	7 19	8 39	10 17	7 14	8 40						
24	Mo.	5 2	9 44	1 39	5 6	9 43	10 53	5 11	9 44						
25	Tu.	7 22	10 52	2 18	7 17	10 50	11 33	7 13	10 49						
26	We.	5 5	morn	2 58	5 9	11 59	....	5 13	11 56						
27	Th.	7 21	0 2	3 44	7 16	morn	0 42	7 12	morn						
28	Fr.	5 7	1 15	4 38	5 11	1 10	1 36	5 15	1 6						
29	SA.	7 19	2 30	5 42	7 14	2 24	2 40	7 10	2 18						
30	S	5 10	3 43	6 54	5 14	3 37	3 51	5 17	3 30						
31	Mo.	7 17	4 50	8 8	7 13	4 43	5 5	7 9	4 36						



FEBRUARY

MOON'S PHASES. (In Standard Time).		EASTERN DIVISION.		CENTRAL DIVISION.	
NEW MOON.....	3d. 11h. 6m. A.M.	3d. 10h. 6m. A.M.			
FIRST QUARTER.....	10d. 5h. 20m. P.M.	10d. 4h. 20m. P.M.			
FULL MOON.....	18d. 9h. 29m. P.M.	18d. 8h. 29m. P.M.			
LAST QUARTER.....	26d. 4h. 24m. A.M.	26d. 3h. 24m. A.M.			

1916 DoM.	Day of Wk.	LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
		Local Mean Time.		Boston Tide. Stand. Time.	Morning.	Local Mean Time.		N. Y. Tide. Stand. Time.	Evening.	Local Mean Time.		Stand. Time.	Morning.
		SUN	MOON			SUN	MOON			SUN	MOON		
		R. & S.	R. & S.			R. & S.	R. & S.			R. & S.	R. & S.		
1 Tu.	7	16	5 48	9 17		7	12	5 42	6 16	7	8	5 35	
2 We.	5	14	6 34	10 19		5	17	6 29	7 16	5	21	6 23	
3 Th.	7	14	sets	11 12		7	10	sets	8 7	7	6	sets	
4 Fr.	5	16	6 48	11 58		5	20	6 50	8 55	5	23	6 53	
5 Sa.	7	11	8 2	0 20		7	8	8 2	9 39	7	5	8 4	
6 Su.	5	19	9 13	1 2		5	22	9 12	10 19	5	26	9 12	
7 Mo.	7	9	10 22	1 43		7	6	10 20	10 58	7	3	10 18	
8 Tu.	5	21	11 30	2 25		5	25	11 26	11 41	5	28	11 23	
9 We.	7	7	morn	3 6		7	4	morn	0 4	7	1	morn	
10 Th.	5	24	0 36	3 53		5	27	0 31	0 52	5	30	0 26	
11 Fr.	7	4	1 41	4 45		7	1	1 35	1 44	7	58	1 29	
12 Sa.	5	27	2 42	5 45		5	29	2 36	2 43	5	32	2 29	
13 Su.	7	2	3 37	6 46		7	59	3 30	3 43	7	56	3 23	
14 Mo.	5	29	4 24	7 46		5	32	4 18	4 43	5	35	4 11	
15 Tu.	7	58	5 6	8 42		7	56	5 0	5 40	7	54	4 54	
16 We.	5	32	5 41	9 33		5	34	5 36	6 31	5	37	5 31	
17 Th.	7	56	6 9	10 18		7	53	6 5	7 15	7	51	6 1	
18 Fr.	5	34	6 34	11 0		5	37	6 31	7 53	5	39	6 29	
19 Sa.	7	34	rises	11 56		7	51	rises	8 32	7	49	rises	
20 Su.	5	37	7 35	.....		5	39	7 35	9 11	5	42	7 36	
21 Mo.	7	51	8 42	0 30		7	48	8 40	9 47	7	46	8 40	
22 Tu.	5	39	9 53	1 8		5	42	9 50	10 24	5	44	9 48	
23 We.	7	48	11 5	1 49		7	45	11 11	4	7	43	10 57	
24 Th.	5	42	morn	2 33		5	44	morn	11 54	5	48	morn	
25 Fr.	7	45	0 19	3 23		7	43	0 14	0 21	7	41	0 8	
26 Sa.	5	44	1 32	4 22		5	46	1 26	1 21	5	48	1 19	
27 Su.	7	42	2 40	5 32		7	40	2 33	2 30	7	38	2 26	
28 Mo.	5	47	3 39	6 49		5	49	3 33	3 46	5	50	3 26	
29 Tu.	7	38	4 27	8 2		7	37	4 21	4 53	7	35	4 16	



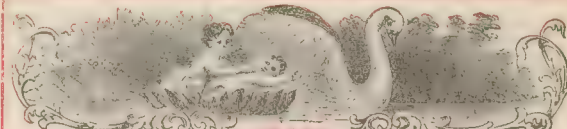
MARCH

MOON'S PHASES. (In Standard Time).		EASTERN DIVISION.		CENTRAL DIVISION.	
NEW MOON.....	3d. 10h. 58m. P.M.	3d. 9h. 58m. P.M.			
FIRST QUARTER.....	11d. 1h. 33m. P.M.	11d. 0h. 33m. P.M.			
FULL MOON.....	19d. 0h. 27m. P.M.	19d. 11h. 27m. A.M.			
LAST QUARTER.....	26d. 11h. 22m. A.M.	26d. 10h. 22m. A.M.			

1916 DoM.	Day of Wk.	LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
		Local Mean Time.		Boston Tide. Stand. Time.	Morning.	Local Mean Time.		N. Y. Tide. Stand. Time.	Evening.	Local Mean Time.		Stand. Time.	Morning.
		SUN	MOON			SUN	MOON			SUN	MOON		
		R. & S.	R. & S.			R. & S.	R. & S.			R. & S.	R. & S.		
1 We.	7	37	5 6	9 6		7	35	5 1	6 4	7	34	4 58	
2 Th.	5	51	5 37	10 1		5	52	5 34	6 59	5	53	5 32	
3 Fr.	7	34	6 4	10 49		7	32	6 2	7 43	7	31	6 1	
4 Sa.	5	53	sets	11 31		5	54	sets	8 26	5	55	sets	
5 Su.	7	30	7 59	.....		7	29	7 57	9 8	7	28	7 57	
6 Mo.	5	55	9 10	0 29		5	56	9 7	9 48	5	57	9 5	
7 Tu.	7	27	10 18	1 10		7	26	10 14	10 27	7	25	10 10	
8 We.	5	58	11 24	1 52		5	59	11 19	11 7	5	59	11 13	
9 Th.	7	24	morn	2 35		7	23	morn	11 54	7	22	morn	
10 Fr.	5	0	0 27	3 21		5	1	0 21	0 19	5	2	0 15	
11 Sa.	7	20	1 26	4 14		7	19	1 19	1 13	7	19	1 13	
12 Su.	5	2	2 18	5 13		5	3	2 11	2 11	5	4	2 4	
13 Mo.	7	17	3 2	6 13		7	16	3 11	3 11	7	16	2 49	
14 Tu.	5	5	3 39	7 14		5	5	3 34	4 11	5	6	3 28	
15 We.	7	13	4 10	8 8		7	13	4 5	5 5	7	13	4 1	
16 Th.	5	7	4 36	8 58		5	7	4 33	5 56	5	8	4 30	
17 Fr.	7	10	5 0	9 44		7	10	4 58	6 42	7	10	4 57	
18 Sa.	5	9	5 22	10 26		5	9	5 21	7 22	5	10	5 21	
19 Su.	7	6	rises	11 5		7	6	rises	7 58	7	6	rises	
20 Mo.	5	12	7 39	11 42		5	12	7 37	8 39	5	11	7 35	
21 Tu.	7	3	8 53	0 2		7	3	8 49	9 20	7	3	8 46	
22 We.	5	14	10 8	0 44		5	14	10 3	4	5	13	9 58	
23 Th.	7	59	11 22	1 29		7	56	11 16	10 48	7	56	11 10	
24 Fr.	5	16	morn	2 19		5	16	morn	11 42	5	16	morn	
25 Sa.	7	56	0 31	3 15		7	56	0 25	0 12	7	57	0 18	
26 Su.	5	18	1 33	4 18		5	18	1 27	1 18	5	17	1 20	
27 Mo.	7	52	2 24	5 30		7	53	2 18	2 28	7	54	2 12	
28 Tu.	5	20	3 5	6 42		5	20	3 0	3 40	5	19	2 55	
29 We.	7	49	3 39	7 48		7	50	3 35	4 44	7	51	3 32	
30 Th.	5	23	4 7	8 45		5	22	4 5	5 42	5	21	4 3	
31 Fr.	7	45	4 31	9 34		7	46	4 30	6 33	7	47	4 30	



APRIL



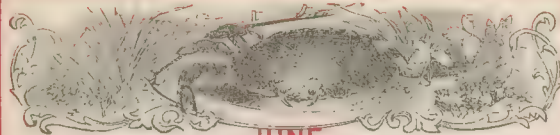
MAY

MOON'S PHASES. (In Standard Time).	EASTERN DIVISION.	CENTRAL DIVISION.
NEW MOON.....	2d. 11h. 21m. A.M.	2d. 10h. 21m. A.M.
FIRST QUARTER.....	10d. 9h. 36m. A.M.	10d. 8h. 36m. A.M.
FULL MOON.....	18d. 0h. 7m. A.M.	17d. 11h. 7m. P.M.
LAST QUARTER.....	24d. 5h. 38m. P.M.	24d. 4h. 38m. P.M.

1916	Day of Wk.	LATITUDE OF BOSTON AND CHICAGO.			LATITUDE OF NEW YORK AND PHILADELPHIA.			LAT. OF WASH. CIN. & ST. LOUIS.		
		Local Mean Time.	SUN	MOON	Local Mean Time.	SUN	MOON	Local Mean Time.	SUN	MOON
		R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.
1 Sa.	15 44	4 53	10 21	15 45	4 53	7 17	15 46	4 55		
2 S.	15 26	5 16	11 1	15 25	5 18	7 55	15 24	5 20		
3 Mo.	15 40	sets	11 39	15 41	sets	8 35	15 43	sets		
4 Tu.	15 28	9 7	.....	15 27	9 2	9 18	15 26	8 57		
5 We.	15 37	10 13	0 40	15 38	10 7	9 59	15 40	10 1		
6 Th.	15 31	11 14	1 23	15 29	11 8	10 42	15 28	11 1		
7 Fr.	15 33	morn	2 8	15 35	morn	11 26	15 37	11 56		
8 Sa.	15 33	0 9	2 55	15 31	0 2	.....	15 30	morn		
9 S.	15 30	0 56	3 45	15 32	0 50	0 44	15 34	0 43		
10 Mo.	15 35	1 35	4 38	15 33	1 29	1 37	15 32	1 23		
11 Tu.	15 27	2 8	5 35	15 28	2 3	2 33	15 30	1 58		
12 We.	15 37	2 36	6 33	15 36	2 32	3 30	15 33	2 29		
13 Th.	15 23	3 1	7 26	15 25	2 58	4 22	15 27	2 57		
14 Fr.	15 40	3 23	8 16	15 38	3 21	5 13	15 35	3 21		
15 Sa.	15 20	3 45	9 2	15 22	3 45	6 0	15 24	3 46		
16 S.	15 42	4 7	9 47	15 40	4	6 45	15 37	4 11		
17 Mo.	15 17	4 32	10 33	15 19	4 34	7 29	15 22	4 38		
18 Tu.	15 44	rises	11 16	15 42	rises	8 10	15 39	rises		
19 We.	15 14	9 6	.....	15 16	9 0	8 58	15 19	8 55		
20 Th.	15 46	10 20	0 25	15 44	10 14	9 49	15 41	10 7		
21 Fr.	15 11	11 26	1 18	15 13	11 20	10 40	15 16	11 13		
22 Sa.	15 48	morn	2 13	15 46	morn	11 38	15 43	morn		
23 S.	15 8	0 21	3 12	15 10	0 15	0 9	15 13	0 9		
24 Mo.	15 51	1 5	4 13	15 48	1 0	1 12	15 45	0 55		
25 Tu.	15 5	1 40	5 18	15 8	1 36	2 17	15 11	1 33		
26 We.	15 53	2 8	6 22	15 50	2 5	3 20	15 47	2 4		
27 Th.	15 2	2 33	7 20	15 5	2 32	4 17	15 8	2 31		
28 Fr.	15 55	2 56	8 13	15 52	2 56	5 11	15 49	2 57		
29 Sa.	15 59	3 19	9 3	15 5	2 30	6 1	15 56	3 22		
30 S.	15 57	3 43	9 49	15 54	3 45	6 46	15 51	3 49		

MOON'S PHASES. (In Standard Time).	EASTERN DIVISION.	CENTRAL DIVISION.
NEW MOON.....	2d. 0h. 29m. A.M.	1d. 11h. 29m. P.M.
FIRST QUARTER.....	10d. 3h. 47m. A.M.	10d. 2h. 47m. A.M.
FULL MOON.....	17d. 9h. 11m. A.M.	17d. 8h. 11m. A.M.
LAST QUARTER.....	24d. 0h. 16m. A.M.	23d. 11h. 16m. P.M.
NEW MOON.....	31d. 2h. 37m. P.M.	31d. 1h. 37m. P.M.

1916	Day of Wk.	LATITUDE OF BOSTON AND CHICAGO.			LATITUDE OF NEW YORK AND PHILADELPHIA.			LAT. OF WASH. CIN. & ST. LOUIS.		
		Local Mean Time.	SUN	MOON	Local Mean Time.	SUN	MOON	Local Mean Time.	SUN	MOON
		R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.	R. & S.
1 Mo.	15 53	4 9	10 32	15 59	4 13	7 28	15 3	4 17		
2 Tu.	15 59	sets	11 13	15 56	sets	8 8	15 52	sets		
3 We.	15 53	9 1	11 55	15 57	8 55	8 51	15 1	8 49		
4 Th.	15 2	9 58	0 16	15 58	9 52	9 36	15 54	9 45		
5 Fr.	15 51	10 49	0 59	15 54	10 43	10 18	15 58	10 36		
6 Sa.	15 4	11 31	1 45	15 7	0 11	25	11 2	15 56	11 19	
7 S.	15 48	morn	2 30	15 52	morn	11 49	15 56	11 56		
8 Mo.	15 6	0 6	8 16	15 3	0 1	0 14	15 58	morn		
9 Tu.	15 46	0 36	4 3	15 50	0 32	1 2	15 54	0 29		
10 We.	15 8	1 2	4 53	15 5	0 59	1 52	15 7	0 57		
11 Th.	15 43	1 25	5 45	15 47	1 23	2 43	15 52	1 22		
12 Fr.	15 10	1 46	6 38	15 7	1 45	3 35	15 7	2 1 45		
13 Sa.	15 41	2 8	7 29	15 45	2 8	4 23	15 50	2 10		
14 S.	15 13	2 31	8 21	15 7	2 33	5 17	15 7	4 2 35		
15 Mo.	15 39	2 57	9 11	15 43	3 0	6 9	15 48	3 4		
16 Tu.	15 15	3 28	10 3	15 7	3 32	7 1	15 7	6 3 38		
17 We.	15 37	rises	10 55	15 42	rises	7 49	15 46	rises		
18 Th.	15 17	9 9	11 47	15 12	9 3	8 44	15 7	8 56		
19 Fr.	15 35	10 12	0 14	15 40	10 6	9 40	15 44	9 59		
20 Sa.	15 19	11 3	1 10	15 14	10 53	10 34	15 9	10 52		
21 S.	15 43	11 42	2 7	15 38	11 38	11 30	15 43	11 34		
22 Mo.	15 21	morn	3 3	15 16	morn	.....	15 11	morn		
23 Tu.	15 32	0 12	3 57	15 36	0 9	0 56	15 41	0 7		
24 We.	15 23	0 37	4 53	15 18	0 35	1 52	15 13	0 35		
25 Th.	15 30	1 1	5 50	15 35	1 1	2 48	15 40	1 1		
26 Fr.	15 24	1 24	6 45	15 19	1 25	3 42	15 14	1 27		
27 Sa.	15 28	1 47	7 38	15 34	1 49	4 35	15 39	1 52		
28 S.	15 26	2 11	8 29	15 21	2 14	5 26	15 16	2 19		
29 Mo.	15 28	2 39	9 18	15 33	2 43	6 16	15 38	2 49		
30 Tu.	15 28	3 12	10 7	15 23	3 17	7 4	15 17	3 24		
31 We.	15 26	3 52	10 52	15 32	3 58	7 46	15 37	4 5		



JUNE

MOON'S PHASES. (In Standard Time).				EASTERN DIVISION.				CENTRAL DIVISION.			
FIRST QUARTER.....	8d.	6h.	59m. P.M.	8d.	5h.	59m. P.M.		8d.	5h.	59m. P.M.	
FULL MOON.....	15d.	4h.	42m. P.M.	15d.	3h.	42m. P.M.		15d.	3h.	42m. P.M.	
LAST QUARTER.....	22d.	8h.	16m. A.M.	22d.	7h.	16m. A.M.		22d.	7h.	16m. A.M.	
NEW MOON.....	30d.	5h.	43m. A.M.	30d.	4h.	43m. A.M.		30d.	4h.	43m. A.M.	

1916 LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day of Wk.	SUN R.&S.	MOON R.&S.	Local Mean Time.	Boston Tide.	Local Mean Time.	SUN R.&S.	MOON R.&S.	N. Y. Tide.	Local Mean Time.	SUN R.&S.	MOON R.&S.
1 Th.	r4	26	8 43	11 34	r4	31	8 37	8 30	r4	36	8 30
2 Fr.	s7	30	9 28	.....	s7	25	9 22	9 16	s7	19	9 16
3 Sa.	r4	25	10 7	0 40	r4	30	10 2	9 59	r4	36	9 56
4 S.	s7	32	10 38	1 22	s7	26	10 34	10 38	s7	21	10 29
5 Mo.	r4	24	11 4	2 4	r4	29	11 1	11 19	r4	35	10 58
6 Tu.	s7	33	11 28	2 45	s7	28	11 26	.....	s7	22	11 24
7 We.	r4	23	11 50	3 26	r4	29	11 49	0 24	r4	34	11 49
8 Th.	s7	34	morn	4 10	s7	29	morn	1 9	s7	23	morn
9 Fr.	r4	23	0 11	4 57	r4	28	0 11	1 55	r4	34	0 12
10 Sa.	s7	35	0 32	5 47	s7	30	0 33	2 45	s7	24	0 35
11 S.	r4	22	0 55	6 44	r4	28	0 57	3 41	r4	34	1 1
12 Mo.	s7	36	1 23	7 42	s7	31	1 27	4 38	s7	25	1 31
13 Tu.	r4	22	1 58	8 41	r4	28	2 3	5 39	r4	34	2 9
14 We.	s7	37	2 42	9 43	s7	32	2 48	6 41	s7	26	2 55
15 Th.	r4	22	rises	10 43	r4	28	rises	7 38	r4	34	rises
16 Fr.	s7	38	8 51	11 39	s7	33	8 45	8 35	s7	27	8 39
17 Sa.	r4	22	9 35	0 7	r4	28	9 30	9 33	r4	34	9 26
18 S.	s7	39	10 11	1 1	s7	33	10 7	10 24	s7	27	10 5
19 Mo.	r4	23	10 41	1 53	r4	28	10 39	11 13	r4	34	10 38
20 Tu.	s7	40	11 6	2 43	s7	34	11 5	.....	s7	28	11 5
21 We.	r4	23	11 29	3 29	r4	28	11 30	0 28	r4	34	11 31
22 Th.	s7	40	11 52	4 19	s7	34	11 54	1 18	s7	28	11 57
23 Fr.	r4	23	morn	5 12	r4	29	morn	2 10	r4	35	morn
24 Sa.	s7	40	0 16	6 7	s7	35	0 19	3 4	s7	29	0 23
25 S.	r4	24	0 42	7 2	r4	29	0 46	3 59	r4	35	0 51
26 Mo.	s7	40	1 13	7 59	s7	35	1 18	4 55	s7	29	1 24
27 Tu.	r4	25	1 50	8 53	r4	30	1 56	5 50	r4	36	2 3
28 We.	s7	40	2 33	9 44	s7	35	2 39	6 42	s7	29	2 47
29 Th.	r4	25	sets	10 32	r4	31	sets	7 28	r4	37	sets
30 Fr.	s7	40	8 7	11 15	s7	35	8 1	8 11	s7	29	7 55



JULY

MOON'S PHASES. (In Standard Time).				EASTERN DIVISION.				CENTRAL DIVISION.			
FIRST QUARTER.....	8d.	6h.	55m. A.M.	8d.	5h.	55m. A.M.		8d.	5h.	55m. A.M.	
FULL MOON.....	14d.	11h.	40m. P.M.	14d.	10h.	40m. P.M.		14d.	10h.	40m. P.M.	
LAST QUARTER.....	21d.	6h.	33m. P.M.	21d.	5h.	33m. P.M.		21d.	5h.	33m. P.M.	
NEW MOON.....	29d.	9h.	15m. P.M.	29d.	8h.	15m. P.M.		29d.	8h.	15m. P.M.	

1916 LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day of Wk.	SUN R.&S.	MOON R.&S.	Local Mean Time.	Boston Tide.	Local Mean Time.	SUN R.&S.	MOON R.&S.	N. Y. Tide.	Local Mean Time.	SUN R.&S.	MOON R.&S.
1 Sa.	r4	26	8 39	11 56	r4	32	8 34	8 54	r4	38	8 29
2 S.	s7	40	9 7	0 16	s7	35	9 3	9 35	s7	29	9 0
3 Mo.	r4	27	9 32	0 56	r4	33	9 29	10 12	r4	39	9 28
4 Tu.	s7	40	9 54	1 34	s7	34	9 52	10 47	s7	29	9 52
5 We.	r4	28	10 15	2 11	r4	34	10 15	11 25	r4	40	10 15
6 Th.	s7	39	10 36	2 48	s7	34	10 37	.....	s7	28	10 39
7 Fr.	r4	29	10 58	3 29	r4	35	11 0	0 27	r4	41	11 3
8 Sa.	s7	39	11 23	4 14	s7	33	11 26	1 13	s7	28	11 30
9 S.	r4	31	11 53	5 7	r4	37	11 57	2 5	r4	42	morn
10 Mo.	s7	38	morn	6 7	s7	32	morn	3 5	s7	27	0 3
11 Tu.	r4	33	0 31	7 14	r4	38	0 36	4 11	r4	43	0 43
12 We.	s7	37	1 20	8 23	s7	32	1 26	5 20	s7	26	1 34
13 Th.	r4	34	2 21	9 31	r4	39	2 27	6 29	r4	45	2 35
14 Fr.	s7	36	rises	10 34	s7	31	rises	7 30	s7	25	rises
15 Sa.	r4	36	8 6	11 28	r4	41	8 2	8 23	r4	46	7 59
16 S.	s7	34	8 39	.....	s7	30	8 36	9 17	s7	24	8 34
17 Mo.	r4	37	9 6	0 43	r4	42	9 5	10 4	r4	47	9 4
18 Tu.	s7	33	9 31	1 30	s7	28	9 31	10 47	s7	23	9 32
19 We.	r4	39	9 55	2 14	r4	44	9 56	11 31	r4	49	9 59
20 Th.	s7	32	10 19	2 58	s7	27	10 22	.....	s7	22	10 25
21 Fr.	r4	41	10 45	3 44	r4	45	10 49	0 43	r4	51	10 54
22 Sa.	s7	30	11 14	4 35	s7	25	11 19	1 34	s7	20	11 25
23 S.	r4	43	11 49	5 30	r4	47	11 55	2 28	r4	52	morn
24 Mo.	s7	28	morn	6 29	s7	24	morn	3 27	s7	19	0 2
25 Tu.	r4	44	0 31	7 30	r4	49	0 37	4 27	r4	54	0 45
26 We.	s7	27	1 20	8 28	s7	22	1 26	5 25	s7	17	1 34
27 Th.	r4	46	2 14	9 22	r4	51	2 20	6 20	r4	56	2 28
28 Fr.	s7	25	3 12	10 10	s7	20	3 18	7 8	s7	16	3 24
29 Sa.	r4	48	4 13	10 53	r4	53	4 18	7 48	r4	57	4 24
30 S.	s7	22	sets	11 31	s7	18	sets	8 27	s7	14	sets
31 Mo.	r4	50	7 59	.....	r4	55	7 57	9 6	r4	59	7 56



AUGUST

MOON'S PHASES. (In Standard Time.)				EASTERN DIVISION.				CENTRAL DIVISION.			
FIRST QUARTER	6d.	4h.	6m.	P.M.	6d.	3h.	6m.	P.M.			
FULL MOON	13d.	7h.	0m.	A.M.	13d.	6h.	0m.	A.M.			
LAST QUARTER	20d.	7h.	53m.	A.M.	20d.	6h.	53m.	A.M.			
NEW MOON	28d.	0h.	25m.	P.M.	28d.	11h.	25m.	A.M.			

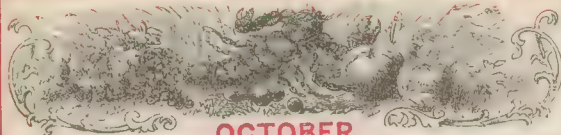
1916 LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. C.N. & ST. LOUIS.				
Day of Wk.	SUN R. & S.	MOON R. & S.	Local Mean Time.	Boston Tide.	Local Mean Time.	SUN R. & S.	MOON R. & S.	Local Mean Time.	N. Y. Tide.	Local Mean Time.	SUN R. & S.	MOON R. & S.
1 Tu.	7 51	8 20	0 26	4 56	8 19	9 42	7 5	0 8 19				
2 We.	7 19	8 41	1 1	7 15	8 41	10 15	7 11	8 43				
3 Th.	7 53	9 3	1 37	7 58	9 5	10 51	7 2	9 7				
4 Fr.	7 17	9 26	2 16	7 13	9 29	11 31	7 9	9 33				
5 Sa.	7 55	9 53	2 56	7 59	9 57	....	7 5	4 10 2				
6 Su.	7 14	10 27	3 42	7 10	10 32	0 41	7 6	10 38				
7 Mo.	7 58	11 10	4 37	7 5	11 16	1 36	7 5	11 23				
8 Tu.	7 12	morn	5 45	7 8	morn	2 43	7 4	morn				
9 We.	7 0	0 3	6 58	7 3	0 9	3 55	7 0	7 17				
10 Th.	7 9	1 9	8 13	7 5	1 15	5 9	7 2	1 23				
11 Fr.	7 5	2 25	9 20	7 5	2 31	6 18	7 5	2 37				
12 Sa.	7 6	3 47	10 20	7 3	3 51	7 17	6 59	3 57				
13 Su.	7 4	rises	11 12	7 5	rises	8 5	7 11	rises				
14 Mo.	7 3	7 31	11 55	7 0	7 30	8 53	6 57	7 31				
15 Tu.	7 6	7 55	0 17	7 9	7 56	9 37	7 13	7 57				
16 We.	7 0	8 20	1 0	6 58	8 22	10 18	6 54	8 25				
17 Th.	7 8	8 47	1 43	7 5	11 8	50	59	14 8 55				
18 Fr.	6 57	9 16	2 27	6 54	9 20	11 45	6 52	9 26				
19 Sa.	7 0	9 50	3 11	7 5	13 9	55	0 10	15 16 10 2				
20 Su.	6 54	10 30	4 2	6 52	10 36	1 2	6 49	10 43				
21 Mo.	7 13	11 15	4 59	7 5	11 21	1 58	7 18	11 29				
22 Tu.	6 51	morn	6 1	6 49	morn	2 58	6 46	morn				
23 We.	7 15	0 6	7 3	7 5	17 0	12	4 0	7 5 20 0 20				
24 Th.	6 48	1 4	8 2	6 46	1 10	4 53	6 43	1 17				
25 Fr.	7 17	2 5	8 54	7 19	2 10	5 52	7 22	2 16				
26 Sa.	6 45	3 7	9 40	6 43	3 11	6 39	6 40	3 16				
27 Su.	7 19	4 10	10 23	7 5	21 4	13	7 19	24 4 17				
28 Mo.	6 42	sets	11 1	6 40	sets	7 56	6 38	sets				
29 Tu.	7 21	6 48	11 36	7 5	23 6 48	8 32	7 25	6 49				
30 We.	6 39	7 8	....	6 37	7 9	9 10	6 34	7 11				
31 Th.	7 23	7 31	0 29	7 25	7 33	9 46	7 27	7 37				



SEPTEMBER

MOON'S PHASES. (In Standard Time).				EASTERN DIVISION.				CENTRAL DIVISION.			
FIRST QUARTER.....				4d.	11h.	26m.	P.M.	4d.	10h.	26m.	P.M.
FULL MOON.....				11d.	3h.	31m.	P.M.	11d.	2h.	31m.	P.M.
LAST QUARTER.....				18d.	0h.	35m.	A.M.	18d.	11h.	35m.	P.M.
NEW MOON.....				27d.	2h.	34m.	A.M.	27d.	1h.	34m.	A.M.

1916				LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. C.N. & ST. LOUIS.					
D.of M.	Day of W'k.	Local Mean Time.		Boston Tide. Stand. Time.	Morning.	Local Mean Time.		N. Y. Tide. Stand. Time.	Morning.	Local Mean Time.		N. Y. Tide. Stand. Time.	Morning.				
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.						
1	Fr.	7	24	7	57	1	8	7	26	8	10	24	7	28	8	5	
2	Sa.	6	33	8	29	1	48	6	32	8	34	11	5	6	30	8	40
3	Su.	7	26	9	9	2	33	7	28	9	15	11	54	7	30	9	22
4	Mo.	6	30	9	57	3	24	6	28	10	3	0	22	6	27	10	11
5	Tu.	7	28	10	56	4	24	7	30	11	2	1	23	7	32	11	10
6	We.	6	27	morn	5	35		6	25	morn	2	33	6	24	morn		
7	Th.	7	30	0	6	6	51	7	32	0	12	3	48	7	33	0	19
8	Fr.	6	23	1	22	8	1	6	22	1	27	4	58	6	20	1	33
9	Sa.	7	33	2	41	9	4	7	34	2	45	6	2	7	35	2	49
10	Su.	6	20	3	59	9	58	6	18	4	1	6	56	6	17	4	4
11	Mo.	7	35	5	16	10	46	7	36	5	17	7	41	7	37	5	19
12	Tu.	6	16	rises	11	28		6	15	rises	8	23	6	14	rises		
13	We.	7	37	6	46	....		7	38	6	49	9	8	7	39	6	52
14	Th.	6	13	7	15	0	31	6	12	7	19	9	50	6	11	7	24
15	Fr.	7	39	7	48	1	13	7	40	7	53	10	31	7	41	7	59
16	Sa.	6	9	8	25	1	58	6	9	8	31	11	15	6	8	8	38
17	Su.	7	41	9	8	2	45	7	42	9	14	....		7	42	9	22
18	Mo.	6	6	9	58	3	35	6	5	10	4	0	34	6	5	10	12
19	Tu.	7	43	10	54	4	30	7	44	11	0	1	29	7	44	11	7
20	We.	6	2	11	54	5	29	6	2	11	59	2	27	6	1	morn	
21	Th.	7	45	morn	6	29		7	46	morn	3	26	7	46	0	6	
22	Fr.	5	59	0	56	7	25	5	59	1	0	4	22	5	58	1	6
23	Sa.	7	47	1	59	8	17	7	48	2	2	5	15	7	48	2	7
24	Su.	5	55	3	2	9	3	5	55	3	4	6	1	5	55	3	8
25	Mo.	7	50	4	5	9	46	7	50	4	6	6	44	7	50	4	9
26	Tu.	5	52	5	9	10	26	5	52	5	9	7	23	5	52	5	10
27	We.	7	52	sets	11	5	5	7	52	sets	7	59	7	51	sets		
28	Th.	5	48	6	2	11	42	5	48	6	5	8	38	5	49	6	9
29	Fr.	7	54	6	33	0	1	7	54	6	37	9	20	7	53	6	43
30	Sa.	5	45	7	10	0	43	5	45	7	15	10	3	5	45	7	22



OCTOBER

MOON'S PHASES. (In Standard Time.)			EASTERN DIVISION.			CENTRAL DIVISION.		
FIRST QUARTER	4d.	6h. om. A.M.	4d.	5h. om. A.M.		4d.	5h. om. A.M.	
FULL MOON	13d.	2h. 1m. A.M.	13d.	1h. 1m. A.M.		13d.	1h. 1m. A.M.	
LAST QUARTER	18d.	3h. 9m. P.M.	18d.	7h. 9m. P.M.		18d.	7h. 9m. P.M.	
NEW MOON	26d.	3h. 37m. P.M.	26d.	2h. 37m. P.M.		26d.	2h. 37m. P.M.	

1916		LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. D.C. & ST. LOUIS.			
DoM.	Day of W'k.	Local Mean Time.		Boston Tide.	Stand. Time.	Local Mean Time.		N. Y. Tide.	Stand. Time.	Local Mean Time.		N. Y. Tide.	Stand. Time.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.		
1	Mo.	5 56	7 55	1 30	5 56	8 11	10 50	5 55	8 8				
2	Mo.	5 41	8 51	2 21	5 42	8 57	11 43	5 42	9 5				
3	Tu.	5 58	9 56	3 16	5 58	10 2	0 14	5 57	10 9				
4	We.	5 38	11 8	4 20	5 38	11 13	1 19	5 39	11 20				
5	Th.	5 1	morn	5 28	5 0	morn	2 26	5 59	morn				
6	Fr.	5 34	0 24	6 38	5 35	0 28	3 35	5 36	0 33				
7	Sa.	5 31	3 14	7 42	5 32	2 144	4 38	5 33	3 0				
8	Mo.	5 31	2 56	8 39	5 32	2 57	5 37	5 33	3 0				
9	Mo.	5 5	4 9	9 30	5 6	4 9	6 28	5 3	4 10				
10	Tu.	5 27	5 22	10 17	5 29	5 21	7 14	5 30	5 20				
11	We.	5 8	rises	11 1	5 6	rises	7 55	5 5	rises				
12	Th.	5 24	5 44	11 42	5 26	5 48	8 39	5 27	5 54				
13	Fr.	5 10	6 20	0 3	5 8	6 25	9 24	5 27	6 32				
14	Sa.	5 21	7 1	0 47	5 22	7 10	8	5 24	7 14				
15	Mo.	5 12	7 50	1 33	5 10	7 56	10 51	5 21	8 58				
16	Mo.	5 18	8 45	2 21	5 19	8 51	11 41	5 21	8 58				
17	Tu.	5 15	9 44	3 9	5 16	9 50	0 6	5 11	9 56				
18	We.	5 15	10 45	4 0	5 16	10 50	0 58	5 18	10 56				
19	Th.	5 17	11 47	4 53	5 15	11 51	1 51	5 13	11 56				
20	Fr.	5 11	morn	5 47	5 13	morn	2 45	5 16	morn				
21	Sa.	5 19	0 49	6 40	5 17	0 52	3 38	5 15	0 55				
22	Mo.	5 8	1 51	7 31	5 11	1 53	4 28	5 13	1 55				
23	Mo.	5 22	2 54	8 19	5 16	2 54	5 16	5 17	2 56				
24	Tu.	5 5	3 59	9 5	5 8	3 58	6 3	5 10	3 58				
25	We.	5 24	5 6	9 50	5 21	5 4	6 47	5 19	5 3				
26	Th.	5 3	6 15	10 34	5 5	6 12	7 29	5 8	6 9				
27	Fr.	5 26	sets	11 18	5 24	sets	8 13	5 21	sets				
28	Sa.	5 0	5 51	.....	5 2	5 57	9 2	5 5	6 4				
29	Mo.	5 29	6 44	0 28	5 26	6 50	9 52	5 23	6 58				
30	Mo.	5 57	7 48	1 20	5 0	7 54	10 43	5 3	8 1				
31	Tu.	5 31	9 0	2 16	5 28	9 5	11 39	5 26	9 12				



NOVEMBER

MOON'S PHASES. (In Standard Time.)			EASTERN DIVISION.			CENTRAL DIVISION.		
FIRST QUARTER	2d.	oh. 51m. P.M.	2d.	11h. 51m. A.M.		2d.	11h. 51m. A.M.	
FULL MOON	9d.	3h. 18m. P.M.	9d.	2h. 18m. P.M.		9d.	2h. 18m. P.M.	
LAST QUARTER	17d.	5h. om. P.M.	17d.	4h. om. P.M.		17d.	4h. om. P.M.	
NEW MOON	25d.	3h. 50m. A.M.	25d.	2h. 50m. A.M.		25d.	2h. 50m. A.M.	

1916		LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. D.C. & ST. LOUIS.			
DoM.	Day of W'k.	Local Mean Time.		Boston Tide.	Stand. Time.	Local Mean Time.		N. Y. Tide.	Stand. Time.	Local Mean Time.		N. Y. Tide.	Stand. Time.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.		
1	We.	5 33	10 15	3 11	5 36	10 19	0 9	5 27	10 25				
2	Th.	5 53	11 30	4 11	5 56	11 33	1 10	5 59	11 37				
3	Fr.	5 35	morn	5 13	5 32	morn	2 11	5 29	morn				
4	Sa.	5 51	0 43	6 14	5 54	0 45	3 12	5 57	0 48				
5	Mo.	5 38	1 56	7 14	5 34	1 56	4 11	5 31	1 58				
6	Mo.	5 48	3 7	8 8	5 42	3 6	5 5	5 45	3 6				
7	Tu.	5 40	4 18	8 59	5 37	4 16	5 57	5 33	4 14				
8	We.	5 46	5 28	9 47	5 49	5 25	6 45	5 53	5 22				
9	Th.	5 43	rises	10 35	5 39	rises	7 31	5 36	rises				
10	Fr.	5 44	4 55	11 20	5 47	5 1	8 14	5 51	5 8				
11	Sa.	5 45	5 41	.....	5 42	5 47	9 2	5 38	5 55				
12	Mo.	5 42	6 34	0 26	5 45	6 40	9 47	5 49	6 48				
13	Mo.	5 48	7 32	1 12	5 44	7 38	10 30	5 40	7 45				
14	Tu.	5 40	8 32	1 57	5 44	8 37	11 13	5 48	8 43				
15	We.	5 50	9 33	2 42	5 46	9 37	.....	5 42	9 42				
16	Th.	5 38	10 35	3 26	5 42	10 38	0 24	5 46	10 42				
17	Fr.	5 53	11 37	4 11	5 49	11 39	1 10	5 44	11 42				
18	Sa.	5 36	morn	4 59	5 40	morn	1 57	5 45	morn				
19	Mo.	5 55	0 39	5 48	5 51	0 40	2 46	5 47	0 42				
20	Mo.	5 35	1 42	6 39	5 39	1 42	3 37	5 44	1 42				
21	Tu.	5 58	2 46	7 31	5 54	2 44	4 27	5 49	2 44				
22	We.	5 33	3 54	8 23	5 38	3 51	5 19	5 42	3 49				
23	Th.	5 7	5 6	9 15	5 56	5 2	6 13	5 51	4 58				
24	Fr.	5 32	6 19	10 8	5 37	6 14	7 5	5 41	6 9				
25	Sa.	5 7	sets	11 0	5 58	sets	7 55	5 53	sets				
26	Mo.	5 31	5 35	11 52	5 36	5 41	8 48	5 40	5 49				
27	Mo.	5 7	6 47	0 19	5 7	0 6	5 53	9 44	6 55				
28	Tu.	5 30	8 3	1 14	5 35	8 10	10 37	5 39	8 13				
29	We.	5 7	9 20	2 8	5 7	2 9	11 29	5 57	9 28				
30	Th.	5 29	10 36	2 59	5 34	10 38	.....	5 39	10 41				



DECEMBER

MOON'S PHASES. (In Standard Time).	EASTERN DIVISION.			CENTRAL DIVISION.		
FIRST QUARTER.....	1d.	8h.	55m. P.M.	1d.	7h.	55m. P.M.
FULL MOON.....	9d.	7h.	44m. A.M.	9d.	6h.	44m. A.M.
LAST QUARTER.....	17d.	1h.	56m. P.M.	17d.	oh.	6m. P.M.
NEW MOON.....	24d.	3h.	31m. P.M.	24d.	2h.	31m. P.M.
FIRST QUARTER.....	31d.	7h.	7m. A.M.	31d.	6h.	7m. A.M.

Date.	Day of Wk.	LATITUDE OF BOSTON AND CHICAGO.				LATITUDE OF NEW YORK AND PHILADELPHIA.				LAT. OF WASH. CIN. & ST. LOUIS.			
		Local Mean Time.		Moon Stand. Time.	Boston Tide.	Local Mean Time.		N. Y. Tide.	Evening.	Local Mean Time.		Moon Stand. Time.	Evening.
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.		
1	Fr.	r7	9 11 48	3	51	r7	4 11 49	0	50	r6	59	11	51
2	Sa.	s4	29 morn	4	46	s4	34 morn	1	45	s4	39 morn		
3	S	r7	11 0 58	5	43	r7	6 0 58	2	41	r7	1 0 58		
4	Mo.	s4	28 2 8	6	40	s4	33 2 6	3	37	s4	38 2 5		
5	Tu.	r7	13 3 17	7	36	r7	8 3 14	4	32	r7	3 3 12		
6	We.	s4	28 4 26	8	31	s4	33 4 22	5	28	s4	38 4 18		
7	Th.	r7	15 5 33	9	23	r7	10 5 28	6	21	r7	5 5 22		
8	Fr.	s4	28 6 37	10	14	s4	33 6 31	7	11	s4	38 6 25		
9	Sa.	r7	17 rises	11	1	r7	12 rises	7	54	r7	7 rises		
10	S	s4	28 5 21	11	45	s4	33 5 27	8	41	s4	38 5 34		
11	Mo.	r7	19 6 21	0	6	r7	14 6 26	9	26	r7	8 6 33		
12	Tu.	s4	28 7 23	0	48	s4	33 7 27	10	7	s4	39 7 33		
13	We.	r7	20 8 24	1	30	r7	15 8 27	10	45	r7	10 8 32		
14	Th.	s4	28 9 25	2	10	s4	33 9 27	11	24	s4	39 9 31		
15	Fr.	r7	22 10 26	2	48	r7	17 10 27	....		r7	11 10 30		
16	Sa.	s4	29 11 27	3	28	s4	34 11 27	0	27	s4	40 11 28		
17	S	r7	23 morn	4	11	r7	18 morn	1	10	r7	13 morn		
18	Mo.	s4	29 0 29	4	58	s4	35 0 28	1	56	s4	40 0 28		
19	Tu.	r7	25 1 34	5	48	r7	20 1 32	2	46	r7	14 1 30		
20	We.	s4	30 2 41	6	45	s4	35 2 38	3	43	s4	41 2 35		
21	Th.	r7	26 3 52	7	45	r7	21 3 47	4	42	r7	15 3 43		
22	Fr.	s4	31 5 5	8	45	s4	36 4 59	5	43	s4	42 4 54		
23	Sa.	r7	27 6 17	9	47	r7	21 6 11	6	44	r7	16 6 4		
24	S	s4	32 sets	10	46	s4	38 sets	7	42	s4	43 sets		
25	Mo.	r7	28 5 39	11	42	r7	22 5 44	8	38	r7	17 5 51		
26	Tu.	s4	33 6 58	0	8	s4	39 7 2	9	32	s4	44 7 7		
27	We.	r7	28 8 17	1	0	r7	23 8 20	10	22	r7	18 8 23		
28	Th.	s4	35 9 34	1	50	s4	40 9 35	11	9	s4	45 9 38		
29	Fr.	r7	29 10 48	2	37	r7	24 10 48	11	57	r7	18 10 49		
30	Sa.	s4	36 11 59	3	24	s4	42 11 58	0	22	s4	46 11 57		
31	S	r7	29 morn	4	14	r7	24 morn	1	13	r7	19 morn		

Barabridge.

2

Ther

Saturday, Jan. 1, 1916

Wea
Stormy

Raining or sleeting most of forenoon, snowing fitfully in afternoon. Dark Cloudy all day. Ground now covered uniformly with five or six inches of icy snow. Sleighting excellent but not many fangs out & almost no real sleighs.

In Garden: No birds whatever save a few dejected looking House Sparrows.

Spent day in Museum Superintending work by Billcliffe, who was making trifling changes or repairs, & of an electrician, who came after luncheon to slightly change the lighting system in large room.

We had the usual reading of our news, followed by a Victrola concert in the hall this evening. C's eyes very dim for past few days because of working too many Christmas cards and letters.

The keeping of a diary serves to impress one with the ever deeper lapse of fleeting years.

Cambridge.

Ther

Sunday, Jan. 2, 1916.

Wear
Stormy

Dark cloudy with snow or sleet falling at frequent intervals adding perhaps two inches of icy snow to that already blanketing the frozen ground. Sidewalks coated with glass ice by nightfall. Altogether a gloomy & depressing, as well as disagreeably chilly, day.

In Garden: 5 Peabody birds, all immatures & very dark-colored with much grayish tinge, feeding throughout forenoon, in company with 30+ House Sparrows, one seen at edge of lilac thicket. A Blue Jay in bush grove. Noted nothing else.

The Peabody birds after game way, sometimes with seeming apprehension, when closely approached by the House Sparrows but also might be seen feeding unconcerningly with them side by side. I did not once see them molested by the alien birds. How can so many Z. albicollis? No more than 3 noted in woods.

Spent most of day in Museum working letters etc. Harry Spelman called shortly after breakfast. Alice Allge & Miss Horford dined with us. Victrola music & reading about 7.30-9.30 P.M.

Cambridge.

Ther

Monday, Jan. 3, 1916

Wear
Dull.

Light cloudy & mild, the snow melting somewhat. Colder at evening & very windy then.

In Garden. Chickadee (heard), one im. Peabody birds in company with some fifteen House Sparrows, two noisy Crows perched in juniper, a Nuthatch in the lindens seen too far off to be identified certainly but looking to me like the White-breasted species.

Dr. Tyler called me by telephone this evening to say that he had seen five dark-colored Evening Grosbeaks this morning among red cedars in Lexington.

Spent day in Museum working letters (of which there would seem to be no limit now) and preparing notes on field observations at Concord & elsewhere. To read at next all Club meeting this evening. It was scarcely attended. Long one person was called on for field notes, etc. We had so much to say & listen to that we did not adjourn until 10.30. Mrs. Balch & Mrs. Harry Lunched with us.

Cambridge.

Ther
16°

Tuesday, Jan. 4, 1916

Wea
Fine

Clear & cold with fresh N. W. wind.

In Garden: a dull-plumaged Peabody bird with about 25 House Sparrows, a solitary Blue Jay, a Downy (heard calling), one or more Crows heard.

At work in Museum all day, chiefly on Umbagog Refuge which was somewhat tedious thereby although still hanging fire to a degree that mortifies my soul most grievously for the whole thing is simple enough as planned and ought to be written easily in a day or less. Why I should have to struggle over it so long and fruitlessly in difficult comprehension

Noble called in late P. M. to borrow more birds for Bangs. Faxon telephoned soon after breakfast to say that he & Tyler had just seen 3 Downy Grosbeaks on Longfellow Island. Tyler says 5 yesterday. I believe more & reading the evening

Cambridge.

Ther

Wednesday, Jan. 5, 1916

Wea
Stormy

Dark cloudy with light drizzle of rain falling more or less ceaselessly. Heavy snow slides crashing down from roofs and museum roofs at intervals.

In Garden, an imm. Peabody bird with numerous House Sparrows, a Chickadee at sunset.

Walter Deane called me by telephone this evening to say that early in the forenoon he & Dr. Tyler had visited the haunts of the Downy Grosbeaks in Lexington seeing there no less than 9 of the beautiful birds, all in 1st plumage, however. They were feeding on seeds of an ash-leaf maple growing near a fruit tree roadway.

At my desk in Museum all day long writing letters in forenoon, wrestling fruitlessly with Umbagog Refuge in afternoon. This unhappy task bids fair to baffle me indefinitely.

Evening passed, as usual, in hall where I played checkers (5-9) & C. Land about 11. C. always returns next at 9 P.M.

Cambridge - Lexington.

Ther Thursday, Jan. 6, 1916 Wea
My first Evening Grosbeaks. Fair

Brilliantly clear with fresh, cool westerly winds. Snow ice. interested but thawing in sun.

In Garden - 8:15 a.m. Together at or near
Street hanging in Catalpa 2 (♂♂) White bellied
Nuthatches, a ♂ Canada Nuthatch, a ♂ Downy
and a Chickadee; beneath this tree an immense
Peabody bird & a dozen or more House Sparrows.

Leaving home at 8:30 a.m. Water Deans

I went to Lexington by electric car
which we left near Monroe Station walking
thence up a winding street to the hill top
where Evening Grosbeaks have been seen of
late feeding in a box elder. We met there
Dr. Tyler, his sister & several other ladies
equipped with opera glasses. The Grosbeaks,
numbering 11 in all, all females, appeared
first about 10:15 a.m., when they fed awhile
on sugar berries, next about 11:15 when
they visited the box elder & spent half an
hour feasting on its seeds. Here I collected
a few. The weather most favorable
conditions. A full account of the experience
will be written in my journal.
Home by 1 P.M. Walter & I collected over
Grosbeaks after luncheon. Visited
concert this evening for G.

Cambridge.

Ther Friday, Jan. 7, 1916 Wea
Clear and cold with westerly winds. Fine

Clear and cold with westerly winds. Fine
Snow thawing little if at all, even at noon day.

In Garden: Two Robins, ♂ & ♀, a Peabody
a Peabody bird & some two dozen House Sparrows
I heard the ♀ Robin call while waiting at
my desk & looking out the window. I
saw her within two yards of it eating
berries of the nightshade vine that annually
struggle up among the rhododendrons.
Hitherto these berries have remained
untouched. This year willoughby usually
for the most part devoured before winter
sets in, especially by Hermit Thrushes.

This is about the height of the regular
hibernation season of Gray Squirrels.
I have not seen one of them often
these over a week of late.

Devoted almost the entire day to
writing out a full account in my journal
of yesterday's experience with Evening Grosbeaks.
It covers eleven M.S. pages.
Usual vireos, cowbirds & robins about in
hail this evening.

Telegram from
Bethel on Saturday
Henry Henson at 10 P.M. saying he plans to "have
his place to stay on Sunday" and will be back in
Cambridge on Sunday.

Cambridge

Ther
9°

Saturday, Jan. 8, 1916
Evening Grosbeaks.

Wea
Fine

Clear & cold with fresh northerly wind

In Garden; a Chickadee, singing freely; an im.
White-throat; a Flick; a Jay; a Crow (heard);
about 30 House Sparrows. Also four or five
birds which came readily have been other than
Evening Grosbeaks. I first heard & then saw them
as they flew swiftly across the open space by
the sun dial towards the head of the garden, one
following another a yard or so apart. The first three
looked exactly like the females seen at Lexington,
the fourth like an adult ♂. All four showed
white conspicuously on wings & tail. My view of
them was the mirror glass, however, being
limited to what could be seen of their fleeting
forms through my steady window near which
I was standing with three boys. One of them,
Lowell Thompson, had been telling me of seeing
3 ♀♀ Grosbeaks of this species in white plumage
in the nursery place, Lowell St., yesterday.
& I had just shown him my skills to
confirm his identification of which he seemed
very confident. Mrs. Cook of Lexington
telephoned this morning to say that the day before
was visited yesterday & to-day by what was
undoubtedly a different flock of Grosbeaks from any
seen there before for they were 7 in number &
2 were handsome males. While the ♀♀ were all
"very gray".
Spent day in Museum writing letters.

Told me of a Hermit Thrush seen by him in the garden St. Jan. 1 & 2.
Lowell Thompson also
Mr. Kennedy's grounds

Cambridge

Ther
6°, 20°

Sunday, Jan. 9, 1916

H. W. Henshaw arrives ill.

Wea
Fine

Clear & cold with light northerly wind

In Garden: Golden-crest Kinglet (heard),
Peabody bird (heard), about 20 House Sparrows,

Evening Grosbeaks at Lexington. Six
females & two males seen together by
George C. Deane & H. Allen & Dr. Lyden.

I spent most of day in Museum
writing letters, additional notes on
Evening Grosbeaks and a report of the
occurrence of a ♀ Barrow's Golden-c. at
Wareham, for Mr. Ash.

Henry Henshaw left Washington by
Federal Ex. last evening. He reached Boston
several hours late and he did not get out
to our house until 1.30 P.M. to-day. He
was then too ill with bowell trouble &
nervous to think of going on to Bethel
to-morrow as he had intended. We got
him into bed shortly & sent for Dr. Swan
who came this evening & hopes to get him
all right again in a day or two.

Cambridge.

Ther

Monday, Jan. 10, 1916

Wea
Stormy

Snow falling thick & fast through forenoon followed and swept away by rain in afternoon. Light S. W. wind.

In Garden: a Chickadee, a Peewee bird and about 30 House Sparrows.

Evening Grosbeaks at Lexington 2 ♂♂ & 6 ♀♀ seen by Walter Deane & others. A single ♀ reported from Sharon, Mass.

Harry Houshopper better this morning & improving though day but keeping still in bed with a trained nurse to look after him part of time. I was with him intermittently. He ate nothing but liquid food, mostly Mellin's.

I visited Harvard Square in forenoon to get my hair cut & make a few small purchases.

N. O. C. Council Meeting this evening, 8-10: Only one came. We dealt with nominations & other matters.

Cambridge - Lexington.

Ther

Tuesday, Jan. 11, 1916

Wea
Fine

Clear & mild with light westerly wind. Streets & sidewalks coated in places with wet & very dangerous ice.

In Garden. A Peewee bird, about 20 House Sparrows, a Downy (heard).

Went alone to Lexington. Roads bright & slippery though just as I got off my car there. Saw Miss Tyler for a moment at the same street corner. She said only two birds had appeared this morning - about 10 a.m. One was a ♂ the other ♀. They had not been long I assumed - to find Miss Cook & several others watching by elms. Mr. Whittle & a young lady took the car back to another street but Miss Tyler met them. Saw 13 juncos & 2 Jays. My companion said I must have been by 11:15. Found Harry fully dressed and at table. He was out walking later. I developed some things in museum. Harry Bonville called this evening staying as usual at home. We had a little brook water before he came.

Cambridge

Ther

Wednesday, Jan. 12, 1916

Wea

Fair

Partly sunny, mostly thin clouds, very chilly with light northerly wind.

In Garden: a dull-plumaged Peabody bird with a mob of House Sparrows hanging about near a box where fragments of bread are thrown out daily; two Flickers eating fruit of Parkinson's apple tree, far neglected by birds & scarcely noticed as yet by Squirrels. Apparently, it has to be frozen & thawed successively about 20 many times before it becomes palatable to any of these creatures. The only other bird I noted was a songing Jay.

Henry Henshaw started for Bethel this morning by 9 o'clock train. I sent Gilbert with him as far as Portland. He went off in rather good spirits.

I spent most of day writing letters of which there are simply floods to answer. Tignon called in forenoon to look at books. We read war news & had Victoria music at evening.

Cambridge

Ther

Thursday, Jan. 13, 1916

Wea

Dull.

Cloudy, calm & warm with light rain in early forenoon. Snow & ice going rapidly & bare ground showing in spots.

In Garden: An immature White-throat with a dozen or more House Sparrows were all the birds I noted.

Spent day in Museum, writing letters and rearranging mounted birds so as to place on exhibition half a dozen specimens that have been stored for years in a tin case. This is now required to store eggs for which I propose having glass-topped boxes made soon. All this is keeping me from my social life but it is nevertheless too important to be set aside. The letters really take most of my time. They are more numerous & of more pressing importance than ever before at this season.

Clara & Paula Bensen called at 10 a.m. bringing \$30. to settle B.C. interest & other floating indebtedness, in full & date. I showed them Museum & birds.

Cambridge.

Ther 30° at 8 a.m.
60° at 9 P.M.
Friday, Jan. 14, 1916
Wea Fine

Clear & increasingly cold with high N.W. wind

In Garden: An im. Peabody bird.
with something over a dozen House
Sparrows. A Thrasher flying from the
Parkman's offh. tree. No other birds
noted.

Spent entire day working with
Gibbs in gallery of Museum. My
attention was drawn to the condition
of the collections there several weeks
ago when I found that several of
the cases were infested with Anthericus.
These have since been bi-sulphidized.
We are now reassembling their contents
with a view to clearing of spores.
Two of the cases are filled with
birds & eggs from Henry's collection.

Ed's eyesight is failing again & has been
ever since Christmas when she wrote a
lot of letters. It was very dim to day.
Gerry Miller called & spent evening with us.
E. R. S. went to her.

Cambridge.

Ther 20°, 22°
Saturday, Jan. 15, 1916
Wea Fine

Clear & very cold with little or no
wind. Windows encrusted with frost
in Museum. Snow in streets giving
out creaking sounds under wheels
passing.

In Garden: A dull-plumaged Peabody
bird, about a dozen House Sparrows,
a single Chickadee (fleeing through
bird grave), a Jay (loud screaming).

Spent day in Museum. Accomplished
nothing save the writing of a few
letters. My Umbagog M. S. has
not been touched for more than a
week just why it has been so
neglected I do not myself quite
feel sure. But somehow all my
mental energy seems to have
suffered complete collapse of late.
This may be due to my giving up
smoking. I have not touched tobacco
since last Monday nor had any desire
to. Victor's music this morning.

Cambridge.

Ther
30°

Sunday, Jan. 16, 1916

Wea
Fine

Clear and mild again with little or no wind. Entire floor of country encrusted with icy snow. This may rather be called snow ice over Charles River opposite the foot of Sparks St. where I saw at least 1000 people skating this afternoon.

In Garden: a Red-bellied Nuthatch heard, a ♂ Dorsey at seat, a Peabody bird with House Sparrows in shrubbery a yard or two. The alien birds crowd eagerly about my fawn tail Pigeons when I feed them under the Catalpa tree but as I throw out no more grain than the Pigeons will surely eat & spread this over a small space only, the Sparrows do not get much of it.

Spent forenoon in Museum writing letters. Alice Allyn, Mary & George Deane & Mrs. Melvin dined with E.P.S. & me on a Turkey raised at our Farm. We had Victoria crabs after meal. C. up stairs.

Cambridge

Ther
9°, 10°

Monday, Jan. 17, 1916

Wea
Fine

Clear and cold. High N.W. wind.

In Garden: at 9.30 a.m. Peabody bird heard chirping, a dozen or more House Sparrows flitting about lilacs, a ♂ Dorsey in jungle, a Blue Jay do. 3 ♂♂ Thickers together, at first in Parkman's apple tree, afterwards in decrepit old pear tree where they remained fifteen or twenty minutes. One bird picked vigorously at the bark of this tree while, I notice, shows fresh marks of such attacks in various places. Probably we shall be forced to wrap the trunks of our pear tree with burlap as has been necessary in former years.

Batchelder & Bays arrived about 10 a.m. To look up Newfoundland specimens in my collection, I was with them all forenoon. Shortly after 2 P.M. Mr. Hille & Miss Granger came by appointment to look at series of birds. They did not depart until 5 P.M. Nuttall Club meeting this eve. Dr. Tyler read paper on White-browed Nuthatch & another on

Cambridge.

Ther
10°, 22°

Tuesday, Jan. 18, 1916

Wea
Fine

Clear, cold; light variable winds.
Typical mid. winter day of the stern south.

In Garden: a chickadee calling close to my study window, a dull-colored Peewee bird in clothes yard, with House Sparrows; afterwards a third bird same as a chickadee looking bird scratching among fallen leaves in jungle.

Gray Squirrels out again despite the cold. I saw one or more repeatedly running singly over the ground.

Spent day in Museum, worked on the bird collection in a.m. examining and rearranging specimens in four cases recently bisected and throwing out skins badly injured by Anthracis of which there were only 3 or 4. Found about that number of dead "birds".

Wrote letter in P.M. V. notes music this evening.

Cambridge.

Ther
10°, 22°

Wednesday, Jan. 19, 1916

Wea
Fine

Clear & cold with light N.W. wind.

In Garden: Woodpecker gathering at 9.30-10 a.m. consisting of ♂ Hairy and ♂♀ Downies together for almost half hour in apple tree by library and ♂ Flicker in Parkman's apple eating its fruit. The black & white spotted birds worked energetically & ceaselessly on what appeared to be perfectly sound apple tree trunks & branches hammering away at them most vigorously but although watching them long & closely through my glass I failed to see that they got anything in the way of food.

A Blue Jay on ground, a Crow on wing & a score or so of House Sparrows complete the list for the day.

Spent day in Museum working on material of nests, eggs & skins labeling some & putting many in new boxes. Baited & Banged. Came up for the afternoon to look for Newfoundland birds in my collection.

Cambridge

Ther Thursday, Jan. 20, 1916 ^{Wear} Stormy

Dark cloudy with light, intermittent snow fall. Mild but chilly.

In Garden: a Chickadee, ♂ Downy at suet, Crow on roving, a dozen or more House Sparrows flitting to and fro.

Spent day in Museum working mostly at cataloging & labeling miscellaneous skins & sets of eggs. This duty has been somewhat neglected of late years and as a result the precise history of several rare specimens has been partly forgotten or nearly so. Hence it is more desirable to enter such essential data as can still be remembered or ascertained before it is too late.

Bradford Scudder called in mid P.M. to bid me good bye. He has resigned from Fish & Game Ass. & taken a place in Conn. with Mr. E. S. Cowen.

C. confessed to error by landmarks. E. R. S. read about to me 7.30 - 9 P.M.

Cambridge

Ther Friday, Jan. 21, 1916 ^{Wear} Fair

Light cloudy with occasional brief gleams of sunshine. Almost or quite winched but warm. Typical January thaw-snow & ice melting fast.

In Garden: 3 Peewee birds, all essentially alike and so dull colored as to be distinguished only with difficulty from the House Sparrows which which they were feeding on seed that I put out for them under the Libell.

This happened about 9:30 and just after I had fed the Pigeons. By confining their grain to a space no larger than they cover when crowding together to eat it I prevent the House Sparrows from getting more than a few stray kernels of it.

At 9.30 there were a ♂ Hairy & a ♂ Downy in jungle & a ♂ Flicker eating Parkinson apple.

I worked in Museum all day arranging & cataloging birds & eggs. Bathed skin & Bangs with me all forenoon looking up Newfoundland skins.

Cambridge

Ther ^{60°} Saturday, Jan. 22, 1916
66° (official rec)

Wea
Dull.

Cloudy & very warm. Strong S.W. wind.
Snow & ice vanishing fast. Bare
ground showing in places & sleighing
quite ruined.

In Garden: a Chickadee, a ♂ Red-bellied
Nuthatch & a ♂ Downy Woodpecker visited
suet in quick succession about 9:30 a.m.
The Chickadee gave the phoe-bee notes
loud & clear several times. I heard
a Peewee bird in the lilacs &
saw a Crow alight on the lawn
where he remained for several minutes
pecking at something in the snow.

Mrs. E. Worcester telephoned me at noon
to say that she had seen 2 ♂ & 6 ♀ Downy Woodpeckers
at Lexington this morning feeding on
fruit of flowering apple, cloud of purple watching.

Chas. R. Lamb shot two Iceland Gulls off
Rockport. He brought them down for me to
see this evening. One is a beautiful & fully
adult bird with blue mantle & pale blue-green
bill & yellow under (very pale yellow).

I worked in Museum all day
cataloging & labeling skins & eggs.

Will Davis called in mid P.M. staying
about an hour.

Cambridge

Ther Sunday, Jan. 23, 1916
40°

Wea
Fine

Brilliantly clear with fresh westerly
wind which seemed just agreeably cool.
Altogether a rather springlike day,
impressing one all the more so because
practically all the snow and ice has
disappeared within the past forty-eight
hours, restoring to view with effrontery
of bare ground; Grass decidedly
green over much of some lawns.

In Garden: a Chickadee, (3)
dull-colored Peewee birds keeping
together, mostly among shrubbery;
a ♂ Downy in the lilacs spending
a lot of time in what seemed an
utterly fruitless search for grubs in
the upright slender shoots which he
tapped at persistently; 2 Crows
on lawn eating pieces of bread.

Downsford telephoned that he
had seen the Grackles (2 ♂♂, 6 ♀♀) at
Lexington 11-12 a.m.

I wrote letters in Museum all day.
My father & Mary Cobb dined with me.

Cambridge - Lexington.

Ther Monday, Jan. 24, 1916 Wea
30°, 42° Evening Grosbeaks. Perfect.

Brilliantly clear with light westerly breeze & dry, cool air. Most like a day in early spring.

In Garden: a Peabody bird singing rather freely at sunset, a Downy calling not long after sunrise.

Started for Lexington by trolley car at 9.15. Dr. Tyler joined me by chance as I was ascending road leading to haunt of Evening Grosbeaks. We found them in flowering apple close to Mrs. Cooke's house, whence they soon flew off into some cedars beneath which they fed & hopped about low ground for 20 or more minutes, finally returning to apple tree again & feasting on buds & twigs from its fruit in same manner as by Pine Grosbeaks.

The flock to-day numbered 2 ♂♂ 5 ♀♀. Hitherto it has usually had " " 6 " ".

The males both lighter colored with much brighter yellow & evidently fully adult. All the members of the flock remarkably silent birds uttering only a low cross-hill-like chirp & that but rarely. Several numbers of Broadwinged Bird also watching them with us. Miss Cooke also appeared. She invited me into her house & showed me an interesting specimen of ancient Italian M.S. with figures of birds. I got home at 12.30

Cambridge - Concord.

Ther Tuesday, Jan. 25, 1916 Wea
Fair

Sunny & overcast by turns. Very mild. Light S. W. wind.

In Garden: 2 in White-throats; 2 Jays & a Downy seen about 9 a.m.; a Chickadee, a ♂ Red-bellied Nuthatch & 2 Golden-crowned Kinglets together in willows by Museum gate at 4 P.M.

Concord Farm: (3) Chickadees, 1 jay, (2) Crows, 1 Partridge.

Leaving home at 10.15 Gilbre & I motored to Concord via Traflet Road, Lexington & Carls Bridge. Roads deep rutted & frozen in places. Open country quite bare. Some snow in woods. River frozen over solid. Reached Farm about 11.30. Burbank away, Moulton & 2 men working on well which is near them, hay forked. After lunch went to Birch Field with George. He has cut about 15 cords of brush. Found several purple Ladys delight blossoms out in front of farm house, one quite perfect. Motored back via Bedford, Lexington & Arlington, reaching home at 4 P.M.

Cambridge - Boston.

Ther. ^{66° (Boston)} ^{66° (Cambridge)} Wednesday, Jan. 26, 1916 Wea. Fair

Partly sunny; mostly thin cloudy. Oppressively warm. People sitting out on piazzas & street cars running with open doors & windows.

In Garden: White-breasted Nuthatch uttering wot-wot-wot call five or six times at 8 a.m. Chickadee at sunset later. Downy heard. 3 duck plumaged Peabody birds

To Boston at 11.30 to attend annual meeting Trustees Park Reservation. 12 noon to 12.45. Dr. Walcott president. Only 9 members present among them George Wigglesworth, George Mann & Henry Thidder. After adjournment I had short talk with Dr. Walcott. Then to our office where I saw Dashing & Gallinger & signed checks. Home by 4 P.M. Went in town again at 6.30 to Mr. Dim at Townsends. Carry on three saw Ben & Barbara. Home by 11.45.

Cambridge.

Ther. ^{60°} Thursday, Jan. 27, 1916 Wea. Dull.

Early morn sunny. Afterwards cloudy & misty. Very warm but somewhat chilly with light easterly wind.

In Garden: 5 Peabody birds, all in immature plumage and clearly sick. Spent the morning together in the bushes scratching among fallen leaves, singing every now and then; 2 Jays screaming long & loud about 8 a.m.; a few House Sparrows.

Sprint day in Museum writing a few letters & checks for bills. Very much of my time has had to be wasted of late because of grievous trouble with the eyes & generally unimproved nervous condition both doubtless due to my growing up smothering on January 10, since when I have not touched tobacco - nor cared to.

E. R. S. returned from Springfield this noon. Miss Henders still here. C. weak & depressed.

Cambridge:

Ther

Friday, Jan. 28, 1916

Wea

63° max.

Fine

Clear & very warm through forenoon.
Temperature falling rapidly in P.M. with
high N.W. wind.

In Garden: Chickadee & Peabody bird
heard; 2 or 3 Flickers seen together on
ground under Sycamore trees.

Spent day in Museum most of
it with A. C. Beale who came
from Iamton to study birds in
my collection in connection with
the book which he is writing. It
was interesting to observe the methodical
business-like way in which he set
about his task of noting characteristics
of certain feathers etc. He one of those
natures overfed him long so he dealt
with a good many of them in the course
of the day. He lunched with us &
conversed & wrote a few letters in
odd hours. E. R. S. read to us after
dinner. C. saw me out to-day.

Cambridge

Ther

Saturday, Jan. 29, 1916

Wea

18°; 28°

Fine

Clear & cool with fresh N.W.
wind. Surface of ground everywhere
bare of snow or ice and hard frozen
again.

In Garden Chickadee heard, Peabody bird
(heard), Flicker (♂ eating Peabody's apple),
Blue Jay (one in apple tree with Flicker).
House Sparrows (only a few).

Spent a much interrupted & rather
profitless day in Museum. In
forenoon received a call from Lincoln
of Pittsfield who brought him dozens of
wonderfully beautiful photographs of wood
& garden plants. I bought two at 2.50,
one of Geraniums, the other of apple blossoms.
Somewhat later in day a Boston lawyer
called me by telephone to enquire as to
my method of chaining trees, where I had
promised to who had helped me do. I
referred him to Forest at New Haven who
put the chains on our trees at Galesville.
Doris Dana called in mid afternoon.
Helen departed at 5. I went out
with him & we walked to Mr. Auburn
& back together. C. a little better but
still keeping quiet & isolated.

Cambridge.

Ther
30° 36°

Sunday, Jan. 30, 1916

Wea
Dull

Cloudy, calm, mild, with light
rain in late P.M.

In Garden 9.30 a.m.; ♂ & ♀ White-throats
Nuthatches together at suet in catapaw;
♂ Red-backed Nuthatch near by at same
time on board work; An adult
Pebony bird and 3 immature ones
in shrubbery near of house, one of
them singing rather loudly every
now and then. Usual flock of
House Sparrows, One Robin Jay.

Spent much of day in Museum
writing letters & checks, looking over
& making library catapaws etc.
Miss Mary Allen & her niece
Miss Gage dined with E.R.S.;
Miss Henders & Mr. C. Stitt
conferred to her room upstairs
although decidedly stranger to day.
I played Victor's records after
both dinner & supper.

Cambridge.

Ther
35°

Monday, Jan. 31, 1916

Wea
Dull.

Cloudy with fine, driving rain
at intervals. Very warm again
- especially in our furnace-heated
houses, wherein the most smoothwood
fires give too much heat yet cannot
be extinguished.

In Garden: 2 White-throats, 2 Jays,
a Downy (heard), a Thriller (heard),
a dozen or more House Sparrows.

One of the Jays began singing
softly about 10 a.m. and kept
it up at intervals for several
minutes. I have not heard this song
before since last winter or spring. The
bird seemed very near my shed
window & was doubtless among the
rhododendrons just outside it.

The White-throated Sparrow went to
roost at evening in honey suckle vine by
Museum door. Like the Brown Thrasher
who frequented it similarly several winters
ago they permitted me to pass within two
feet of them without leaving. I have heard
them chirping there for several evenings past.
Spent day in Museum doing little
except write a short letter.

Cambridge.

Ther 5.0°, 6.0° Tuesday, Feb. 1, 1916

Wea Dull

Thin cloudy, calm, warm but chilly.

In Garden: Chickadee (heard), Peabody birds (heard), Blue Jay (singing again in rhododendron thicket heard by my study window), Flicker (heard), Herring Gull (flock of 9 birds winging their way high overhead towards Fresh Pond), House Sparrow (thronging entire place very noisily, entering holes in tree trunks & otherwise conducting themselves in ways especially characteristic of approaching breeding season; all this not observed before this season). Gray Squirrel began showing themselves freely about a week ago. Saw them I have seen them out & about all seasons after 2 or 3 at once. No amorous demonstrations noted yet.

Spent day in Museum, mostly at my desk where I wrote a few letters. Miss Henderson left us this afternoon.

Cambridge.

Ther 24.0° Wednesday Feb. 2, 1916

Wea Snowy

Snow falling steadily through forenoon & earlier part of afternoon - a windless snow-fall, covering the ground very uniformly to a depth of some five or six inches.

In Garden: Peabody bird heard, 2 Jays screaming and one of them afterwards singing sett voice in the rhododendrons just outside my study window.

Spent day in Museum working mostly in big room rearranging eggs and skins. Tried to do a little writing but had to quit because of the poor light and of continued trouble with my eyes. They have acted almost ceaselessly of late. C's sight is failing hopelessly I fear. She sees less well from work to work. All her letters now are read to her now. She enjoys the booklets as much as ever. We have a very sunny.

Cambridge.

Ther

Thursday, Feb. 3, 1916

More snow.

Wea
Stormy.

Snow falling thick & fast at daybreak and well through forenoon. It covered the ground evenly to a depth of not less than 12 inches when the storm finally ceased. Afternoon calm & thin cloudy the sun showing occasionally & setting clear.

In Garden: Chickadee heard; im.
White-throated Sparrows eating "deadly" nightshade berries which still hang profusely to vines overrunning the rhododendron thicket by my study window. Very many House Sparrows. Downy W. heard, 2 Crows on wing.

Spent day in Museum for most part rather fruitlessly although several letters were written & some eggs rearranged. My eyes less troublesome than for several days past.

Dick Dana called in P.M.; also A. J. Percus. Much reading about & Victrola music in hall after dinner.

Cambridge.

Ther

10°

Friday, Feb. 4, 1916

Wea
Fine

Brilliantly clear. Fresh N.W. wind. Early morning cold. Fine sleighing again but only punks seem to be taking advantage of it. Snow quite a foot in depth and very pure and undefiled as yet with purple shadows thrown across it by the trunks of our lindens & elms.

In Garden: only a very few birds including 2 White-throats, about 30 House Sparrows, a Jay, 2 Crows.

Spent day in Museum rearranging bird skins in gallery.

Mrs. Brewer called soon after breakfast, desiring me to inspect the work of some of Phelan's men in her house. This I did finding it all right. Next Batchelder came to discuss Mr. Dice & other matters. He did not stay long. E. R. S. went to her Bess this evening. I read some news to C. & then played Victrola for an hour.

Cambridge.

Ther

Saturday, Feb. 5, 1916

Wea
Fine

Clear, calm, mild, snow melting a good deal & sliding in thunderous avalanches from Museum roof but slipping still excellent.

In Garden: 2 immature White-throats with about a dozen House Sparrows eating seed put out for them under the lilacs, a ♂ Flicker feasting on Parkman apples, a Downy Woodpecker.

Spent day in Museum rearranging bird skins & sorting letters.

Dick Dana called in mid afternoon. He stayed rather more than half an hour & told me an interesting thing about two dogs in a house (his daughter's) near New York where he has been visiting lately. One dog, a fresh white one, will lie only on white rugs, the other, a black one, only on black rugs.

Reading about & Victoria music in hall this evening.

Cambridge.

Ther

Sunday, Feb. 6, 1916

Wea
Fine

Sunny, calm, warm; clouds gathering somewhat in late P.M. Snow settling fast.

In Garden: 2 immature Peabody birds feeding with about 30 House Sparrows on seed that I threw down for them under lilacs; 4 jays roosting together through jungle (at 10 a.m.) while a ♂ Flicker was just finishing his breakfast of tiny apples in the Park near there. Its once heavy burden of fruit has been diminished, at least one half by the Flickers Gray Squirrels and House Sparrows all of whom have been eating the little apples constantly for a month or so.

Spent much of day in Museum sorting letters. We had Miss Allger at dinner. She has been ill in Hospital. Victoria music 2.30 - 3.30 P.M. & again this evening.

Cambridge

Ther
40°

Monday, Feb. 7, 1916

Wear
7 mi

Sunny & mild until towards evening when a high N.W. wind arose and the temperature fell sharply.

In Garden Chickadee (heard) 4 in. Peabody birds collected at seed bed in company with a lot of House Sparrows, ♂ & ♀ Flicker eating P. apple together (about 9.30 a.m.). Downy seen afar off in jungle.

Spent part of day in house & part in Museum reading & sleeping by turns but attempting no work. Dr. Jowett called to see me in forenoon. He seems inclined to attribute my present unbringed & apathetic condition largely to giving up smoking but strongly advises a greater resumption of habit at present.

C. J. Maynard called in P.M. but I did not see him, nor did I attend Matthew Clark this evening.

Cambridge, Mass

Ther
45°

Tuesday, Feb. 8, 1916

Wear
7 mi

Brilliantly clear with fresh northerly wind & hard frost again.

In Garden: Peabody birds heard chirping at evening as they went to roost in Rhododendron thicket. At least two of them have repeatedly spent nights of late in honeysuckle vine by Museum door to which the Thrasher resorted similarly in winter 1913-1914. One of them sang rather freely this morning. Besides them I noticed only a ♂ Flicker & about a dozen House Sparrows.

Walter Deane & E. H. Forbush came almost simultaneously about 9 a.m. The former stayed only a few minutes, the latter until 10.30. Dr. Jowett came at 11 and made a thorough physical examination, looking at heart, & finds no serious organic trouble. Heart in good shape, blood pressure normal, no arterial hardening. July Balls for cancer in P.M. & ^{July} a letter from me in afternoon to Dr. Archibell. ^{one Brown} ^{dermatitis}

Cambridge

Ther

Wednesday, Feb. 9, 1916.

Wea
Dull.

Cloudy calm & mild, but chilly,
an inch or two of snow fell sometime
last night or very early this morning.

In Garden: 2 Chickadees, 3 dull-colored
Peabody birds with about 20 House Sparrows
at bird bed, 2 Jays screaming in
the jungle.

Spent forenoon partly in Museum
partly in house with C. - it being
the thirty eighth anniversary of our
wedding day. Lorry Fisher brought
us some beautiful eggs.

I went in town at 2.30 to
attend Annual Meeting Directors
of Grinnell Ass. at 14 Beacon St.
Dr. Blake presided. He, Mr. Gossels,
Dr. Little, Mr. Green, Miss Harte
& Mrs. Reid the only members
present with myself. We transacted
a lot of routine business & adjourned
at 4.45. I came straight home
Reading about & Michael messaged this
evening.

Cambridge.

Ther

Thursday, Feb. 10, 1916

Wea
Fine

Clear, crisp & frosty, with
moderate westerly wind...
Everything buried in snow
now somewhat icy in character.

In Garden: a lone Chickadee,
one im. Peabody bird with 30+
House Sparrows at bird bed,
a ♂ Flicker in Parkman's apple,
a Jay flitting through jungle,
dislodging puffs of snow from
many a branch thereby.

Spent most of day in
Museum where I wrote a few
letters and relabeled several
birds in the Peabody collection.
Although apparently perfectly well
I am still suffering from an
deadly apathy that has oppressed
me for several weeks. Perhaps it is
due in part to anxiety about C.
whose eyesight continues to fade pathetically.
Jude Abbott called at 1.45 & spent
upward of an hour.

Put in annual supply of coal (20 tons for furnace & 20 of range)

Cambridge.

Ther
20°

Friday, Feb. 11, 1916

Wea
Ball.

Early morn sunny; after that increasing cloudiness with fine snow falling steadily after dark; making 2 or 3 inches by 10 P.M.

In Garden: a Peabody bird with House Sparrows at seed bed; ♂♂ Downy Woodpeckers & ♂♂ Flickers perching near together in jungle about 11 a.m.

Spent most of day in Museum. Wrote letters in A.M., worked on rearrangement of skins after luncheon. Frank Manning called at 3 P.M., staying half an hour, and Dick Dore at 5 P.M. to stay until 6.

Loring Fuller dined with C. & me at 6.45. I walked home with her at 9. E. R. S. spent evening at the Bar.

Cambridge

Ther
18°

Saturday, Feb. 12, 1916

Wea
Stormy.

Dark, cloudy and bitterly cold or rather chilly with fine, dry snow falling intermittently, packing down smooth and hard as fast as it struck and "making" to a depth of perhaps five inches by nightfall.

In Garden: Crows cawing at daybreak, 2 Downy at seed, above 15 House Sparrows at seed bed. Nothing seen or heard of any of the Peabody birds.

Spent day in Museum working on rearrangement of Gallies & Flickers. Those from boxes brought from outlying cases into those of the main collection in the gallery.

Harry Spelman called at 5 P.M. & stayed until 6.30.

E. R. S. dined out (at Miss Balch's) this evening. I played Victrola to C.

Cambridge.

Ther

Sunday, Feb. 13, 1916

Wear

8°, 20°

Deep snow.

Stormy

Cloudy & cold. Snowing through last night and the whole of to-day. At least a foot of snow has fallen during the past three days & there was six inches or more on the ground before that. This present storm has crippled the trolley car lines badly and apparently wholly banished automobiles from our city streets where I have seen naught but pungs & sleighs to-day.

In Garden: at sunset, 8.30 a.m., White-breasted Nuthatch ♂, Downy W. ♂. In Parkman apple 9.30 a.m. Flitter ♂ eating fruit, Blue Jay hopping about Chimney. Heard a Redstart bird chucking near my window. About 8.30 a.m. Sp. warblers fluttering to & from.

Spent most of day in Museum working letters. Miss Allyn over for guest at dinner. Victoria after

Cambridge.

Ther

Monday, Feb. 14, 1916

Wear

-2° + 10°

Fine

Brilliantly clear & very cold with dry air & brisk northerly winds. The newspapers report 17 inches of snow on a level all about Boston. In our grounds it is somewhat drifted & exquisitely sculptured in places by the wind as well as very deeply hollowed out close around the bases of large trees. Everywhere it is of spotted purity. Only a very few automobiles vented out but these seem to run well enough. Rather many sleighs & pungs, cutting to & fro with jingling bells as in olden times.

In Garden: 2 in Peabody birds & about a dozen House Sparrows coming eagerly to my little seed bed by Museum. Chickadee heard.

Spent entire day in Museum gallery rearranging birds with Gillette help. Miss Bolch at luncheon. Victoria after it. Only reading this evening.

Cambridge.

Ther Tuesday, Feb. 15, 1916 Wea
- 2° + 20° Time

Clear & cold with light northerly wind. Perfect sleighing with a surprising number of horse-drawn sleighs & puns plying up & down Brattle Street, but only a very few automobiles out.

In Garden: a Chickadee (whistling the Phoebe call), a ♂ Downy at sunset, a Jay flitting through flocks of snow whom he slighted, a Robby bird chirping insistently at sunset & seen later roosting in honey suckle vine, by Museum door when he remained crouched among the thin semi-evergreen foliage as I passed out within 2 ft. of his perch.

Spent day in Museum. Cataloged & labeled birds. Rearranged a lot of field notes, & other things. E. R. S. laid up with a cold. C. & I spent evening together in hall. I had paper for her & bought Victoria.

Cambridge.

Ther Wednesday, Feb. 16, 1916 Wea
2°, 32° Fair

Early morning clear & cool but free from chill. Most of day sunny & cloudless with steady rising temperature & increasing cloudiness.

In Garden: an im. White-throat, a few House Sparrows, 2, eggs

Spent day in Museum. Cataloged books in gallery.

"Mc Dine" at Harry S. S. S. this evening. All there except Barbara, Bert & Goodale.

Unusually good dinner & interesting talk afterwards, mostly about Great War, the Brandeis Case, and National politics. It seemed strange for the second time this year to find myself with the small non-smoking minority. Even Townsend & Bates had their own cigarettes each. For break up amount 10.50

Cambridge

Ther 52°, 40° Thursday, Feb. 17, 1916 Wea Dull.

is cloudy, calm, mild.
Snow melting fast and thick,
deep in slush. There was a light
snow fall overnight or very early
this morning - perhaps a ray or two.

In Garden. Flicker (♂) and Blue Jay
together in Paulownia after this
at 7 a.m. Flicker devouring the
fruit but this did not seem to
interest the Jay. Peewee bird
chirping long & loud at evening. Only
a few & out Sparrows.

A broken with record new to
visit Dr. Williams' office in mid
forenoon. There I went to Mr.
A. H. H. and saw. Back in
time for luncheon with C.
B. R. S. still confined to his room
in a cold.

Spent afternoon in Museum
rearranging books & recording very
many over more or less preserved
no longer read or consulted.

Cambridge - Boston

Ther 50° Friday, Feb. 18, 1916 Wea Stormy
Brewster Club An. Dinner.

Dense cloudy with rather heavy
rain in late afternoon & evening.
Mild. Snow melting freely.

In Garden: A Peewee bird
chirping, a Blue Jay screaming,
a few House Sparrows.

Spent day in Museum
rearranging books & books, chiefly
in gallery. Harry Spelman
called at 5 P.M. staying about
half an hour. I went in
town at 7.30 to attend dinner
of Boston Brewster Club at
Hotel Westminster. He sat down
just 70 at table. I with Mr. & Mrs.
Haley, the President (Mr. T. H. H.),
Mrs. Brewster, Mrs. Adams & her daughter,
Miss H. H., Miss Moore & Miss
Pearce then, Prof. Nelson &
Lester G. G. spoke for half hour as
did Mr. Haley. I got home at
midnight.

Cambridge - Boston.

Ther 14°, 10°. Saturday, Feb. 19, 1916 Wea Fair

Clear & cold with blustering N. W. wind. A very harsh & trying sort of day.

In Garden: Heard a Downy & saw a Jay & a few House Sparrows.

Went in town at 10.30 A. M. met Mr. Hobbs at our office where we had a rather long talk about school matters. He thinks it best not to be hasty about entering with the boys' Secret Society but wait until a good opportunity to talk with them. I took him to Manhattan for dinner at 1 P. M.

Came out about 3 & did a little work in Museum. Dick Dove called at 5.30, Alan & Harry Bartlett at 8.30.

Ther 3°, 24°. Sunday, Feb. 20, 1916 Wea Fair

Thin cloudy with occasional bright gleams of sunshine. Cold but not so windy as was yesterday.

In Garden: Heard a Jay & saw a Crow & a few House Sparrows.

Spent forenoon in Museum reading books. Had intended to write letters but lacked energy (or will power) enough to get started at it. This deplorable condition of mind or nerves or what not, seems to grow on me from day to day, paralyzing all mental effort and stupifying me much of the time with drowsiness impossible to resist. Perhaps it may all be due to abstinence from tobacco which I have not once touched since January 10 last.

Miss Allen can only guest at dinner. Distracted mind after it. Called at the Almy's 5.30-6.30 & met only Mrs. A. & Mary.

Cambridge.

Ther - 2° + 10° Monday, Feb. 21, 1916 Wea Fine

Intensely cold with cloudless skies and strong N.W. wind. One of the most trying days of the whole winter. Perfect sleighing again.

In Garden: - Crows cawing at sunrise; 4 White-throated Sparrows, all very dull-colored & nearly able, feeding, with a few House Sparrows, at seed bed under lilacs in late P.M.

Spent day in Museum working letters and arranging books. Nuttall Club meeting this evening. Letter thinly attended. Judge Jenney brought another judge named Aikins a large, fine looking man just fifty years of age. We talked about Evening Grosbeaks mostly. They were reported from several parts of Maine & various localities in Mass.

Geo. Deane reports 50 Robins at Fresh Pond Grove L. day.

Cambridge.

Ther 4° + 28° Tuesday, Feb. 22, 1916 Wea Fine

Sunny, calm, cold in early morning, moderating rapidly in forenoon, snow melting into slush wherever fully exposed to sun's rays.

In Garden: Crows cawing lustily near house in early morning; 2 Jays with large pieces of bread in their bills flitting through lilacs at 9 a.m. Later in forenoon (about 11) a Jay surrounded me for many minutes most delightfully from somewhere among shade-dendrons close to my window singing ceaselessly sotto voce all the while as sweetly as any whistling lark-like Cat bird & not unlike one. Robins appeared in Parkman's apple about 10.30 & were there continuously, but coming & going individually, until 3 P.M. There were at least 7, 2 of which were ♂♂ and 5 very dull-colored ♀♀. They were mostly about fresh feeding plants; there probably took 2 of them; also 1 downy at sunset. Spent most of day in Museum working letters. Victoria came this evening.

Cambridge - Boston.

Ther Wednesday, Feb. 23, 1916 Wea
Income tax returns. Dull.

Dark cloudy with alternating rain & sleet falling for half an hour or more in mid afternoon. Very gloomy & intensely chilly day.

In Garden: Heard a Chickadee & a Robin calling and saw a Flicker & a Blue Jay. Percy reports a "Robin" in full song in early morn. A Peewee bird calling at noon.

Went in town shortly after breakfast. Spent most of forenoon in office working over income tax returns with Galloupe. To my surprise he makes out that I shall have nothing to pay this year. He has discovered that last year the tax on my annuity was by mistake paid twice over, once by Estley again by me. After we had finished the irksome task we dined together at Young's after that I called at Steinert's for a lot of records & then came out home. Found records this evening & got several very good ones by Galloupe & Kruesler.

Cambridge

Ther Thursday, Feb. 24, 1916 Wea
22° Dull.

Dark cloudy with exceedingly minute snow flakes falling sparsely every now & then. Intensely chilly.

In Garden: 2 dull-colored Peewee birds, swarms of House Sparrows and a Blue Jay were all the birds I noted.

To Harvard Square at 10 a.m. Spent about half an hour in Dr. Andrews' chair. He explained my broken tooth by an x-ray. After that did a little shopping and then walked home.

Spent afternoon in Museum writing letters and charges for bills. We had the usual lecture concert & reading aloud in hall this evening. I read the war news, E. R. S. read a chapter from Tolstoy's "East's Diamonds".

Cambridge.

Ther

Friday, Feb. 25, 1916

Wea
Stormy

Dark cloudy with heavy rain which began last night and continued through much of to-day washing snow & ice and flooding city streets. Temperature mild but air chilly with the penetrating chill of melting snow.

In Garden: a Chickadee (heard),
2 dull plumaged Peabody birds,
a score or more House Sparrows,
3 Downy at Suet.

Spent day in Museum writing labels for collection of Estrader nests & eggs obtained for me in 1905 by Dr. Griffith. There are several choice sets among these specimens but most of the eggs are cradled blown & many lack definite dates.

E. R. S. at the Bee this evening. I read some news to C. & played a few cards also.

Cambridge.

Ther

Saturday, Feb. 26, 1916

Wea
Stormy

Dark cloudy with frequent but not incessant rainfall, for the most part not heavy. Very foggy at times. Altogether a dreary sort of day.

In Garden: Heard a Chickadee calling & at the same time saw what looked like 4 birds of that species flitting about through the jungle. Two Downy Woodpeckers also there together then. Heard a Blue Jay later. Two in. Peabody birds & plenty of noisy House Sparrows.

Spent day in Museum working on the egg collection, labeling many sets & rearranging others. Anthracite has wrought some damage to feathers - burned nests in the gallery, but I am not even that any of it is recent. It seems best to bisulphate the cases however.

We then spent evening on hall. E. R. S. read aloud & I played bridge.

Cambridge - Boston

Ther
20°

Sunday, Feb. 27, 1916

Wea
Fine

Clear & cool with fresh N. W. wind.
Streets rough with frozen blocks of
icy snow, no bare ground of
much extent anywhere but snow
everywhere hard-crusted & no
longer deep.

In Garden: noted only a Blue Jay
and a dozen or more House
Sparrows.

Left house at 10 A. M. & walked
down Brattle Street to Harvard Square
where I met C. & Henry Fuller at
entrance to Subway via which
we went in town together to
St. Pauls. Dr. Roumanee preached
an excellent sermon & the
music was, as usual, very beautiful.
We returned together reading home
at 1. Miss Abby & Miss Jennie
Chapman dined with us on a
Turkey from our farm. Victrola
music afterward. Letter writing later.
Reading aloud in hall this evening.

Cambridge

Ther
8°, 18°

Monday, Feb. 28, 1916

Wea
Fine

Clear & cold with high N. W.
wind.

In Garden: A White-throated
Sparrow singing, a Downy calling,
a Jay flitting through jungle, a
few House Sparrows.

Spent day in Museum.
Mr. Merritt, our Brewster Academy
teacher, with me for above an hour
in forenoon, discussing the
contemplated purchase for our Brewster
Library of Encyclopaedia Britannica
in an edition reduced in size &
cost. He seems to think that the
school is running well & that the
German teacher, Schabert, is mostly
behaving with discretion, despite
rumors to the contrary.

In afternoon I wrote letters &
worked a little on egg collection.
We had usual reading aloud &
Victrola music in evening.

Cambridge.

Ther 14° to 24° Tuesday, Feb. 29, 1916 Wea Fine

Clear & cold with light northerly wind.

In Garden: Chickadee whistling phoe-bee loud & clear, very many times; 10 a.m. White breasted Nuthatch uttering wot-wot-wot song several times at 8 a.m., 2 ♂♂ 7-bellies in Parkman apple tree; Peabody bird calling & singing a little, near Museum.

Spent day in Museum. Began cataloguing and labeling the birds collected by me in Trinidad in March & April 1894. Some are then they have borne only the original field labels which were merely small tags marked with sex & date of each specimen. It is necessary to reidentify many of the species, I find.

Mrs. Melvin called in mid P.M. I received her as C. could not. We sat in hall this eve & E. had read about from English & Canadian

Cambridge.

Ther Wednesday, Mar. 1, 1916 Wea Fine

Clear & cool with light westerly wind. Ground evergreen covered with six inches or more of dry snow.

In Garden: 2 Robins (♂♀) at first in Parkman's apple tree, afterwards low down in cedar where they remained silent, inert & very close together for twenty or more minutes. All the while 2 ♂♂ 7-bellies were feeding in the Parkman apple tree. Heard a Downy and saw a Peabody bird. A down or even House Sparrow.

Spent day in Museum writing labels for Trinidad birds. Arthur Bent came to look over my Gulls, in forenoon & Mr. Whittle to identify some eggs in afternoon.

C. went on to Dr. Cheaney in forenoon. She kept her room this evening while E. R. S. & I sat in hall discussing various things.

Cambridge

Ther

Thursday, Mar. 2, 1916

Wear
Stormy

A snow storm began sometime last night & continued through entire forenoon making an all snow ten inches and thereby restoring the total depth of our snow blanket to nearly or quite what it was before the recent thaw & rains. Certainly it must exceed a foot on the level now.

In Garden: immature Peewee bird in vines over morning glory chirping loudly; 2 Phoebe feeding in Pookroom off the tree; Blue Jay heard screaming.

Spent day in museum reidentifying birds collected at Trinidad in 1894 and writing labels for them. Finished this task at 6 P.M. It was pleasantly interrupted for about half an hour in late P.M. by a call from Dick Dana & his Great Terrier "Tipperary". We sat in hall this eve E. R. S. reading around.

Cambridge - Boston

Ther

Friday, Mar. 3, 1916

Wear

Annuitant tax opinion. Merged.

Morning brilliantly clear, almost windless, moderately cool, wholly devoid of chill. Afternoon cloudy & very chilly with intermittent rain and snow.

In Garden: 2 im. Peewee Birds, Chickadee calling, Downy do., upwards of a dozen House Sparrows.

C. & I drove to subway at 10.15 & went thence to Boston where I left her at St. Pauls. Met John Abbott by appointment at our office 11 A.M. to get his advice respecting payment of income tax on my annuity. He thinks that without question it should be forgiven by the estate as in deed. The Will specifically directs. He promised to give me his opinion in writing later. Galtrop heard it.

Lunched at Marshman's. Called at Harcourt for reports & stopped a bit at Garrison's & Marshall's, Home 3-38. Worked in Museum Lab. by Victorio. Museum & reading this evening.

Cambridge.

Ther

Saturday, Mar. 4, 1916

Wear
Fair

Fairly cloudy, after noon
Sunny. Seasonably cool through
day with lower temperature
at night. Good sleighing again.

In Garden (2) Chickadees spending
much time among my vines on
Museum peering in at windows
where I was at work; 2 or
Peabody birds, one singing fairly;
a Blue Jay singing delightfully
softly over, close to my study
window, on Rhododendrons;
2 Flickers eating Parkman apple.
A dozen or more House Sparrows.

Spent day in Museum.
In forenoon wrote letters &
checked for bills; in afternoon
catalogued & labeled miscellaneous
sets of eggs, mostly very rare ones
from Mayers, Fisher & Banks.
Victoria Massie & reading about
in hall this evening.

Cambridge.

Ther

Sunday, Mar. 5, 1916

Wear
Fine

Clear & rather cold with light
northerly wind becoming blustering
in afternoon.

In Garden: 8 Robins, Chickadees (1),
3 dull plumaged Peabody birds, at least
a score of House Sparrows, a Blue
Jay, a ♂ Flicker, a ♀ Downy.
All these seen or heard shortly before
10 a.m. The Robins (4 ♂ & 4 ♀)
remained about the place all day
long making frequent visits to the
Parkman apple tree. Sometimes all
of them were in it at once feasting
on the berry like fruit. From it they flew
oftenest into nearby pines. They ate snow
frequently & greedily. Saw one hover in
front of a tiny apple & pluck it off without
slighting as Robins are accustomed to do.
Saw Peabody birds eating these little
apples (or more probably their seeds) yesterday
& today. The Robins severely select
for most part but once one saw a little
soft voice. It was good to see them
now. I watched them upwards of an hour.

Spent most of day in Museum packing
letters. Mrs. Sawyer's Allen Allgeier domestic
work us at 1.30. Victoria Massie afterwards

Cambridge.

Ther
10°

Monday, Mar. 6, 1916

Wear
Dull

Dark cloudy, cold in early morning
temperature rising through day, snow
fall after dark.

Birds in Garden: Crows cawing at
sunrise; 7 Robins & a ♂ Flicker in Parkman
apple; 2 Peabody birds also in it cawing
in front (or birds more likely); Blue Jay
just outside my study window singing
enthusiastically (at 11 a.m.) scarcely louder
than a whistler, however. Many of his
low, sweet notes sounded like that of other
birds & he repeatedly gave a perfect

imitation of cawing of Crows seemingly
after off & on in gusts. In same
way he reproduced fairly his own
ordinary screaming caws. At noon a ♂
Harry Woodpecker appeared in jungle.

He had two rather widely separated
patches of pale pinkish red on occiput
thirty degrees from the bird seen
here on Jan. 19 who had normal red
marking.

Spent entire day in Museum
cataloging Trinidad birds. Mary
Greenough lunched with Mr. Nuttall Club
this evening. Townsend talked about 2 hours
about the day on Medford's Labrador.

Cambridge

Ther

Tuesday, Mar. 7, 1916

Wear

Flood of birds.

Snow storm

Dark cloudy with snow falling
through much of forenoon, succeeded by
fine rain. 5 or 6 inches new snow on ground.

Garden literally flooded with birds
all day long. Most of them Robins &
Cedar birds, attracted by fruit of our
Parkman apple. At least half of what
had overhauled the winter was eaten by
these greedy birds. I counted 30 Robins
in the tree at one time but ordinarily there
were not more than ten or a dozen. Saw
28, which appeared to be another lot, flying
over high in air at 10.30 a.m. The
Cedar birds numbered 8 constantly.
They spent part of their time just
conspicuously in the Seckle fruit tree.
Most of them showed red feeding
on twigs. The Robins sang a little
softly too. 2 Jays screaming kept
loud way north of them. Dozens
heard calling at noon and a
Peabody bird towards night. Hordes
of House Sparrows.

Mrs. Kern of Brookline telephoned
to let me know that the Saw 10 or 12
evening Grosbeaks in Brookline yesterday.
Others saw them a day or two earlier
in same place, eating ~~evening~~ berries.
Spent day in Museum cataloging
Trinidad birds. Mary Greenough
lunched with us.

Cambridge.

Ther Wednesday, Mar. 8, 1916 ^{Wea} Stormy

Dark cloudy with N.E. wind and large flakes of damp snow falling all afternoon & evening clinging to every thing, twig & shrouding the trees with snow-foliage of exquisite beauty & purity. Altogether this latest snow-fall must have added at least six inches to the hoar or more already covering the ground.

In Garden: 13 Robins & 8 Cedar birds in Parllman apple at 9 a.m. They remained in or near it through whole day & by nightfall had stripped it almost clean of fruit. Saw also 2 Peabody birds, a ♀ Downy, a ♂ Flicker & a Blue Jay. Heard Crows at dog track. About 30 H. Sparrows

Spent day in Museum working letters & working on eggs. Kennard came over about 2.30 bringing a Blue Goose, several Texas Black 2 neck (maulosa) & a Glossy Ibis (guaraya) which he had taken recently in the flooded lands of H. M. Graham called him

Cambridge.

Ther Thursday, Mar. 9, 1916 ^{Wea} Fine

Clear with light westerly wind. Rather cold the snow melting scarce any and now everywhere at least 18 inches deep.

In Garden: 13 Robins spending entire forenoon in Parllman apple tree and stripping it of all remaining fruit apparently as well as gleaming thoroughly and that had fallen on the snow beneath. What will the Flickers do with out it? I have not seen any there since yesterday when a ♂ scolded with the Robins seeming to regard their presence disapprovingly. I thought two Peabody birds & half a dozen House Sparrows at seed bed. A Chickadee, 2 Jays, 3 Crows

Spent day in Museum. Worked all forenoon on egg collection. Picked out a lot of duplicate sets for Miss Granger who came with Mr. Whittle at 2.30 & Kennard with S. 3.30. I also gave for a lot of food skins. Sports among in hall with C. & E. R. S.

Cambridge.

Ther

Friday, Mar. 10, 1916

Wea
Stormy

Dark cloudy with more snow inconsiderable in total amount. but falling almost ceaselessly in large, scattered flakes through forenoon. Temperature rising to about freezing point as day advanced melting most of snow on branches of trees.

In Garden, only a very few birds including an im. White-throated Sparrow, 6 or 8 House Sparrows, one or more Crows (heard). Saw no Robins but Henry Spelman reports one in his garden this morning.

There is nothing to attract them here now for they have completely stripped the Parkman apple tree.

Worked all day on the egg collecting, picking out duplicates & rectifying imperfect data wherever possible.

Months might profitably be devoted to continuing this task if I only had time to spare for it.

Cambridge.

Ther

Saturday, Mar. 11, 1916

Wea
Fine

Clear with light westerly wind and rather low temperature on the snow. Thawing but little although sliding off Museum roof in rumbling avalanches during mid-day hours.

In Garden: a general dearth of birds. 2 Chickadees & 2 Red-bellied birds with about a dozen House Sparrows and one or two loud-screaming Jays were all I noted.

Spent day in Museum working on egg collection, picking out duplicates, discarding sets with unsatisfactory data, rearranging by many others. The great beauty & interest of many of the specimens impressed me deeply and I love to handle and admire them. I still retain a few single and - blown eggs taken in 1865 for perhaps earlier. Dick Dango called at 9 P.M. bringing his son Dack. They stayed over one hour.

Cambridge

Ther

Sunday, Mar. 12, 1916

Wea
7m

Clear, calm, seasonally cool, the snow thawing only moderately at noon tide. From the north part it continues to overlie the fields to a depth of considerably more than 12 inches and to afford excellent slipping on some city streets. Hence the conditions remain essentially wintry, with little or nothing visible or audible to suggest the near approach of spring. Even the Fieldlarks have not begun to show or drone.

Because of a head cold which developed yesterday & was rather troublesome through last night I did not go out, even to Museum, to-day. Wrote letters in A.M. Alice Allen & Frank Manning dined with C. & me. He had a little beetle-like museum. Frank stayed with me until 5 P.M.

Cambridge.

Ther

Monday, Mar. 13, 1916

Wea
7m

Clear, calm, mild. Heavy thaw on the snow settling fast in fields and flooding streets with slush through which automobiles dashed at full speed, splashing it on every side. Those who were out of doors in forenoon reported a spring-like "feel" or quality to the air.

I was hindered all day by my cold which, however, seems to be passing off to-night. I read through forenoon & was sent to an afternoon when I also amused myself for an hour or more by the unusual diversion of sitting before the parlor window watching "the passing" on Brook Street. The small boys were snow-balling each other & the punge just as we used to fifty years ago.

Cambridge.

Ther

Tuesday, Mar. 14, 1916

Wea
Duel

Cloudy calm & mild with
rain at nightfall. Snow
washing rapidly and streets
rivers of slush

In Garden: Chickadee (heard),
2 in. Peabody birds, about a dozen
House Sparrows, Jay (heard),
Crows (heard in early morning).

Spent day in Museum.
Devoted most of forenoon to
trying out a vacuum cleaner
brought out from "Boston by
the Agent who demonstrated"
it so satisfactorily that I
finally purchased it (\$46.50)
Wrote letters in P.M.
Had the usual reading
aloud ("Gus's Diamonds")
& Victrola music in hall
this evening when we tried
several new Victor records &
accepted two of them.

Cambridge.

Ther

Wednesday, Mar. 15, 1916

Wea
Snow Storm

Snowing almost ceaselessly and
at times heavily, from early
morn to late night, adding at
least another foot of snow to
that left over from the recent
thaws which did not perhaps
exceed ten inches. This present
storm is, I think, the heaviest
snow-fall of the winter. A
strong N.E. wind has drifted
the snow badly in exposed
places.

In Garden: Heard a Peabody
bird chirping near Museum
Saw a few House Sparrows.

A.C. Bent arrived about 10
a.m. to spend the day working
on my birds. I was with him
part of time but mostly at
work killing some the Pader
collection. Also Storer looked
with us. We had Victrola music
& reading in hall this evening.

Cambridge.

Ther Thursday, Mar. 16, 1916 Wea
Fine

Brilliantly clear with keen, calm wintry air. According to the newspapers no more than 8 inches of snow fell yesterday but it is piled three or four feet high where shoveled out along our walks & Brabant sends word of "drifter snow or eight feet deep." But covered where the public roads are well-nigh impassable & the road roads give so, he says.

In Garden: Chickadee, Jay, Downy & Crow heard: 2 in. Peabody birds with about 10 House Sparrows at the feed bed. As far as I am able to judge by conditions here there has been no arrival of migrants from further south as yet unless perhaps that of the Robins & Cedar birds may be so considered.

Worked all day on Purdie Collection. Dick Davis called in late P. M. & we had a good chat of our house & so

Cambridge.

Ther Friday, Mar. 17, 1916 Wea
12° Fine

Brilliantly clear and colder with high north-west winds. Fine sleighing, hard going for motor cars.

In Garden: A Jay foraging for bread in company with House Sparrows. Heard a Peabody bird chirping.

Spent day in Museum working in gallery on the Purdie Collection. Arthur Bent arrived about 10 a.m. & remained until 1 P.M., talking notes of some of my large water birds.

Gilbert brought out a lot of Gogova records which we had this evening. They proved altogether disappointing & I shall have to return some of them.

Cambridge.

Ther 5⁰, 20⁰ Saturday, Mar. 18, 1916 Wea Fine

Clear and cold with light northerly wind. Snow glistening in clear sunlight & creaking loudly beneath runners of passing loaded sleds & jumps.

In Garden: An in Read body bird with about 10 House Sparrows, at seed bed; 2 Jays flitting through lilacs.

Spent day in Museum. Walter Deane arrived soon after breakfast bringing tail of long Hawk shot by Mr. Marshman party in Alberta. Last autumn they thought it a Rough-leg but it does not agree with that or with any thing in my collection although nearest Buteo calurus. Walter & I concluded after spending most of forenoon comparing it. After that I worked on Pardalipicus. Mary & I went lunch with us

Cambridge - Boston

Ther 8⁰, 24⁰ Sunday, Mar. 19, 1916 Wea Fine

Clear & cold with light northerly wind. Fine sleighing.

In Garden: Chickadee, Downy & Crows heard; 2 Jays; 2 Tree Sparrows, 3 in. Feet birds and rather more than a dozen House Sparrows assembled in late afternoon (4.30) to feast on seed that I had just put out for them under the lilacs. The Tree Sparrows mingled with the rest for but a brief interval and after that kept aloof, flitting hither & thither among the dead stalks of perennial plants rising above the deep snow.

At 9.50 C. & I started to walk to Harvard Square where we met George Fisher & with her went on town to church at St. Pauls. Home by 1. Allen Ulysses & 10 city Hoppin at dinner. Bed at 10.15.

Cambridge.

Ther 10°, 26° Monday, Mar. 20, 1916 Wea Fine

Clear & cold with harsh & violent north-west wind. Despite these wintery conditions the sun's rays beat down strongly melting the snow fast in sheltered places.

In Garden: 2 Chickadees (heard), White-throated Sparrows & Blue Jays were the only birds I noted save the ever-present House Sparrows.

Spirit day in Museum working assiduously on the weeding out of duplicate skins from the collection. Gilbert took about 140 of them down to Mrs. Comp. Tol. He also motored C. into Boston. Nuthall Club Meeting this evening. Only 12 members present. Glover Allen gave "Finger hairs of California Birds".

Cambridge.

Ther 38° Tuesday, Mar. 21, 1916 Wea Fine

Sunny for most part & comparatively mild but not without snow flurries especially in early afternoon when for half an hour the more, large, scattered snow flakes floated earthward at frequent intervals.

In Garden: (2) Chickadees, (6) Blue Jays, at least one Red-bellied bird, some 10 or 20 House Sparrows.

Working in Museum all day, in forenoon on bird skins, in afternoon mostly on eggs of which I rearranged the Centin Series of Osprey's eggs. They quite fill a wooden tray in one of the large cases and show great diversity, as well as beauty, of coloring & marking.

Dick Dana called at 4.30 & spend about an hour. He talked of the Great War mostly.

Cambridge.

Ther Wednesday, Mar. 22, 1916 Wea
Snow Storm

Snowing thick & fast during most of day. About 6 inches of wet, heavy snow had fallen by night making with that left over from previous storms snowcover near two feet of snow on the level now covering our city lawns & dooryards. According to the weather bureau reports the total snowfall for this month of March has broken all previous records for the neighborhood of Boston.

In Garden: an in Pied-billed, 2 Jays, & Downy (at nest) a dozen or more House Sparrows.

Worked all day in gallery of Museum arranging eggs, chiefly those of Hawks.

Mrs. Stone & Miss Jessie Chapman busied with us.

We had Victoria mused & Leah about in hall this morning.

Cambridge - Boston.

Ther Thursday, Mar. 23, 1916 Wea
Fine

Brilliantly clear, almost windless, not cold.

Exquisitely beautiful "sun-fog" in early morning, soon marred, however by the sun rays which melted the snow fast wherever they struck on it fairly and cast a dazzling light from its spotted surface away with them.

In Garden: a Pied-billed bird only.

Started for Boston at 10.30.

Stopped at Harvard Square to have pictures to be framed; at City Hall for gunner's license; at Cambridgeport Savings Bank to deposit \$200.

Reached our office at 11.30. Signed quarterly Est. at Chas. & Co. & then to Haley. Talked with Stet.

Buttrick & gave him Chas. \$500 for deposit in Concord Savings Bank. Also bought 1000 House Sparrows on John Lamb's Maple at Massachusetts had hair cut at Stetson's on Fourth Place. Got several records at Cambridge Graph & played them Chas coming to C.

Cambridge

Ther

Friday, Mar. 24, 1916

Wea
Fine

Clear, calm, mild. Snow melting fast & much bare ground showing in city streets before night but none elsewhere save where the snow has been removed as in front of Museum where green crocus shoots are now appearing.

Noted no birds other than a Crow & a few House Sparrows.

Spent day in Museum rearranging eggs. Mrs. Johette came at 2.30 P.M. to pack the collection of eggs & skins I have laid aside for Mrs. Granger. This occupied him & Gilbert most of the afternoon.

E. R. S. went to her but this evening. C. & I had a good Victoria Concert with some beautiful Glock records bought lately. I also read the war news to her.

Cambridge

Census & such days bloom

Ther

Saturday, Mar. 25, 1916

Wea

48°

Flicker Shouting

Fine

Clear, calm, warm. A really spring like day, almost, if not quite, the first. Snow melting faster fields & yards. Streets deep in slush.

Recently increased snow drops in front of Museum showed several large white flower buds to day. Two yellow crocuses in full bloom front of house where Percy claims to have seen them a week or more ago.

In Garden: Chickadee calling; White-bellied Nuthatch singing and Flicker shouting (at 9 A.M.); Peewee bird singing; 2 Jays screaming; 2 Crows flying low.

Worked on egg collection through A.M. Mrs. Osborne of Winthrop came by appointment at 2.45 P.M. with her Camp Fire Girls, nine in number. E. Walter D. & I examined them in house & showed them objects of interest there. Walter & I then showed them afternoon in Museum where they stayed until 4.45. Dick Dana came just before them.

Cambridge.

Ther
54°

Sunday, Mar. 26, 1916

Wea
Fine

Clear and very warm with light, soft southerly wind. Snow sitting fast everywhere & vanishing completely on sunny slopes where bare ground is beginning to appear. A dozen or more crocuses yellow, purple & white, in bloom. Some of haws & many snow drops in fruit. Meadows. Altogether the conditions are now more suggestive of spring than of winter despite the deep snow depths still conspicuous almost everywhere.

In Garden. Purple Finch (gray one) singing. ~~Sooty~~ ~~blue~~ ~~white~~ haffing over snow under Postman off to Ben; Chickadee & Peewee bird calling. Flicker thrumming in. Song Sparrow. Nuthatch off to Ben. Went in town at 10.15 to meet C.

at St. Pauls. We came out together at 12.30 & walked off from Hare's to Alice Allgren. Miss Purdie died early at. Much better news after dinner. Harry Barthele called this evening.

Cambridge.

Ther

Monday, Mar. 27, 1916

Wea

54° First full Robin song.

Fine

Sunny but hazy. Clouds gathering in late P.M. Almost windless but with occasional light draughts of easterly breeze. Many more crocuses & snow drops out to-day. Robin in nearly full song as usual.

In Garden: Purple Finch & Peewee bird singing very low - almost in a whisper - at intervals through day. A Robin began singing just after sunset & kept it up at intervals for perhaps twenty minutes. How good it was to hear his ferocious cheery notes once more when I have so often first heard them in spring about ten days later or a little earlier. 2 Blue jays, a Chickadee & a ♂ Downy, also a Crow.

Worked all day on the egg collection. Representations of me less than then Boston papers (Journal, Traveller & American) came out to photograph my garden & bird (Stebbins) & to question me about it.

Cambridge

Ther
52°

Tuesday, Mar. 28, 1916

Wea
fine

Sunny, calm, warm. Bare ground showing here & there in garden & lawn, the bare spaces broadening surprisingly as day wore on. 2 Squirrels, many Crows, Cuckoos, Snowdrops, in bloom but no Bees about them yet.

In Garden: Chickadee calling; 3 gray Purple Finches feeding on snow under Parkman affs, one warbling softly & delightfully on frequent intrusions all day. Crow. Blackbird heard almost incessantly though P.M. I could see but one bird, a ♂ on ground in jungle; 2 White-throated Sparrows going to roost at sunset in vine over Museum door. ♂ & ♀ Doves; 2 Jays; 1 or 2 Crows.

Spent day in Museum working on rearranging eggs - mostly Doves. C. having serious trouble with eggs again due to dazzling light. We had lunch in hall this morning

Cambridge.

Ther
42°

Wednesday, Mar. 29, 1916

Wea
Dull.

Cloudy with light, chill, easterly wind and fine rain at nightfall.

In Garden: A Chickadee; 2 imm. Peewees birds, one singing freely but faintly; 4 Cedar-birds, all conspicuously "wax tipped", with 3 gray Purple Finches, eating hips of Rosa multiflora in vine directly under gallery windows of Museum where I watched them a long time, in company with Oldman Bongs in P.M. 2 Jays; Crows heard; ♂ Doves. Walking up Brattle Street just after breakfast I heard a Song Sparrow singing in the Blatford grounds & saw 2 Robins & 3 Grackles in the Nichols place. A Flicker skunking through

Spent most of day in Museum working on egg collection. O. Bangs called in P.M. bringing back some borrowed birds & staying over on lawn. We dined at our house this evening. Every one came except. Bant. Dinner cards very pretty by Alice Stone.

Cambridge - Boston.

Ther Thursday, Mar. 30, 1916 Wea
Mixed.

Forenoon thin cloudy; afternoon bright sunny. Calm; mild. Snow & ice disappearing as if by magic yet without now leaving much surface water. This morning our lawn was more than one half snow-covered, by night three quarters bare ground. The river open above Harvard Square but still ice-bound below Harvard Bridge.

In Garden: Robin running over bare turf of lawn & ~~and~~; Peabody bird & Purple Finch singing ~~both~~ voice; 2 Jays.

To Boston at 10.30. In our office much of time from noon to 7 P.M. Called at Skinner's & at Columbia Graphophone place getting a lot of records at each for trials. Also visited Park Pollard place in quest of more ~~fine~~ ^{fair} ~~last~~ ^{new} ~~records~~ ^{records} for Concord. They had none but can get them from G. J. Terrell's record in subway cars. Good Columbia records this evening & shall keep at it all night.

Cambridge.

Ther Friday, Mar. 31, 1916 Wea
F. quarter calm.

Clear, calm, soft & spring-like. Streets dry & dusty, snow washing fast and mostly gone from our sunny exposures but still lying in deep drifts on north sides of fences, buildings etc.

In Garden. A Robin calling; a Purple Finch singing ~~both~~ voice; 2 Jays; a ♀ Downy; a White-throated Sparrow whistling softly; 3 Grackles in tree tops.

Motored to Harvard Square with E. R. S. at 10 A.M. She went to her dentist, I did some shopping & then motored over to Mrs. Corp. Lord where I had a talk with Sam Henshaw & spent an hour in old room with Bards & West. The latter came to my Museum in P.M. to talk notes on my Wood Swallow.

Finches came out this evening at 8 & stayed until 11. He had a good talk & some books to me which he asked.

Cambridge. Boston

Ther 60°
First Bees. Wea Fine

Clear, calm, very warm. City lawns for most part free from snow and ice, the grass showing green in sheltered spots. Our Crocuses and snowdrops about at their best. Squirrels only beginning to show here & there. Bees out in plenty about their flowers to-day.

In Garden: 2 ♂♂ Robins running on lawn with occasional jabs at each other; Song Sparrows singing freely; 3 Fox Sparrows, one of them in faint song; 2 Jays; 5 Crows; ♀ Downy; 3 Brownish Grackles, Peabody bird singing both voc; Purple Finch ditto. Robin in full joyous song in early morn & again just after sunset.

Wrote letters in forenoon. In Boston at 11.30. Called at Columbia place to return records; at Dr. Blais's office to have my car called upon, brushed at Copple-Place. Called on Mrs. Shaw in Groves. She showed me all Wells paintings & generally lighted records I enjoyed greatly.

Cambridge.

Ther Sunday, April 2, 1916 Wea Fine

Clear, calm, slightly cool.

In Garden: 2 Robins; Bluebird under warbling, on wing in direction of the Horseshoe house; Purple Finch singing both voc; Peabody bird, out in dull plumage; Downy, ♀; 2 Jays; 3 Crows; 4 Brownish Grackles on wing.

Spent most of forenoon in Museum working letters. Escorted C. to St. John's at noon, leaving her there for Communion Service. Returning met Miss Hall & stopped for talk with him. He still skates. He was leading on leash a very handsome Welsh Terrier.

Walter & Maggie Deane died last Sat. Harry & May Cunningham arrived to call before they left. After we had dined I went down to see Miss Allgren who was not well, bringing several records to play to her. Played various others to C. this evening.

Cambridge.

Ther

Monday, April 3, 1916

7 Wea
Fine

Clear & cool with light northerly wind shifting to E. in P.M.

In Garden: Robins ♂♂♀, one singing well at evening. They were much on ground when I saw one full out & devour a large earthworm. Purple Finches 3 red ♂♂ with 4 grey birds feeding mostly on ground under Partridge's apple & doubtless on seeds of its fruit dropped there by other birds earlier in the year. One of our males sang superbly at frequent intervals while perched in trees. A solitary Fox Sparrow sang a little but brokenly. Three Peewee birds at seed bed, two dark plumaged, one a handsome white-throated bird. Flicker shouting & drawing. Jay & Grackles heard.

Spent day in Museum sorting letters & putting away things for the season. Northall Club this evening. Highest Canton slide talk on Florida. Uncommonly good in very brief.

Cambridge - Concord.
Move to Concord.

Ther

Tuesday, April 4, 1916

Wea

Smoking resumed (after 3 mos.) Stormy

Dark cloudy with almost incessant fine rain driven across a dreary landscape by chill N.E. wind.

In Cambridge Garden: a Purple Finch singing fitfully at 8 a.m. (8 Cedarbirds in Concord Farm. Song Sparrows & a Red wing singing a little, Robins calling at evening. Song & flock of juncos rising from meadow in orchard. Phoebe trails in snow. Toph's reports hearing for "Tope" yesterday.

It was a dreary enough day for the annual Spring flitting to Concord. One Gilbert & I, with "Tinsley" started, nevertheless, at 9 a.m. in the Ford car crammed full with miscellaneous things.

We found roads bad in spots & altogether abominably after having Cambridge Bridge heavily & deeply rutted by heavy snow. Road very high & for some parts open but well snowed in, on meadows. No snow until after passing Bedford. Deep layers of it in & across meadows. Rained about 1/2 in in P.M. Toph having caught George just back from a long debauch taking very much and off by 10, but my first snicker went Jan. 10, 1916.

Concord (Farm)

Fifth Saw 4 Deer together.

Ther Wednesday, April 5, 1916 Wea
Wood Frogs in full cry Fine

Clear with light northerly wind. Cool at morn & eve. Warm through day. Snow-drops & purple Ladys delights in bloom. Soar brown Butterflies & tiny ones similarly colored out on wing.

Very many early spring birds.

2 pairs of Bluebirds, the males singing devotedly; 6 or 8 Robins, at least 2 in full song at sunset; Chickadees *;

6 or 7 Song Sparrows singing sweetly but somewhat brokenly as is their wont at this season; about 30 juncos killing insects; 2 Phoebe in full song; several Red-wings do, 4 Cowbirds

(2♂ 2♀), on ground; 5 hens Therapods together in vegetable garden part of house at noon; 5 Red Crossbills on Purple Rock woods; 1 broken Sparrow.

Wood Frogs croaking in full chorus in pond below orchard. Fifth Saw 4 Deer together Bigelow Road. Fresh tracks of deer in our Berry Pasture.

First cutting day out of doors. Had 4 men hewing brush on West Field & about 1 acre. Lumber & 2 small brush. Mary Pasture & then at sunset

Concord (Farm)

Ther Thursday, April 6, 1916 Wea
Fine

Sunny but hazy. Rather cool; light E. wind.

Cloudy to 9 P.M. Raining heavily 10 P.M.

Birds abundant and singing fairly all day long, filling air with their tender, plaintive, rather subdued music characteristic of early spring in Mass. Most of it was contributed by Bluebirds, Song Sparrows, Phoebe, Juncos & Red-wings. The Robins silent through day, save for occasional calling but at evening (6.30) they sang freely for a near uniting their voices in a cheerful chorus lasting about 15 minutes. Red shouldered Hawk screaming afar off towards Blandens in forenoon. Four silent Fox Sparrows in orchard.

Two Tree Swallows circling high at 11 A.M. Cock Therapods crowed over. Solitary Goldfinch & little Starling, one young.

Grand chorus of Wood Frogs in pond below orchard although it rained near then 1/2 frozen over. No Hylas yet.

Spent day out of doors. Burnt grass & put up last house. Four men hewing brush about Cow Pasture.

Concord (Farm)

Ther

Friday, April 7, 1916

Wea
Fair

Brilliantly clear with cold & violent
N. W. wind.

Birds mostly silenced & driven to
cover by the harsh & raging wind
so that I saw or heard only a
few. Among them were several
Juncos, a Chickadee, a Gold Crest
Kinglet, a Meadow Lark and
a Yellow Warbler (both singing). The even song
of the Robins was full and
delightful at times.

At the edge of a little opening in
Pulpit Rock woods I found apparently
all the feathers of a Partridge strewn
thickly over the ground but no other
remains. As the wing & tail quills had all
been pulled out and as two broad splashes
of dead chertish water of recent loss among
them the bird must have been killed &
eaten by a Hawk or Owl & perhaps by a
Jackrabbit although I have not heard of
the local occurrence of this species of birds.
Spent day in Cedar Park cutting
& burning brush. Only Bluebirds & Jays
working there with me.

Concord (Farm)

Ther

Saturday, April 8, 1916

Wea
Dull

Evening Grosbeaks in Concord

Cloudy with strong, intensely chilly,
north-east wind. Snow flakes began
falling at 4.30 P.M. Coming thicker & faster.
They had whitened the entire face of the country
by night fall and have not yet ceased (9 P.M.)

2 Fox Sparrows in full song at intervals
through forenoon. At noon they were feeding on
ground front of house where we had put out
hemp & millet seed. 40 Juncos were feeding
on it at 5 P.M. I noted few other birds.

In these places others than that noticed
yesterday. I found to-day feathers of a
Partridge that had apparently been killed by a Hawk.

Miss Mary Eaton reported by telephone this
evening the appearance of Evening Grosbeaks this
forenoon (10.30) in her grounds at Concord
village. She saw six (1 ♂ 5 ♀♀) close to her
house, at first in a birch, near on ground
beneath it. When at length they flew off
five or six others joined them, coming
from the direction of the pond where there
are large ash trees near by on the side
of which Purple Finches had fed for
just few days. She did not see the Grosbeaks
eating leaves.
Bewick Wren all day in the elm.

Concord (Farm)

Heavy snow - storm

Ther Sunday, April 9, 1916 Wea
Evening Snow Storm

Dark, cloudy with violent N.E. wind and dense, incessant fall of large snow flakes. Barabank says it snowed all last night. At day break the snow covered the ground to a depth of two inches & by sunset it was four or five inches deep.

We chased the snow from a small place in front of house & put milk in it this & in the open fields.

Upwards of 20 juncos, 3 Song Sparrows & 2 Fox Sparrows fed on it freely in both places. The Fox Sparrows sang gloriously at times. Two obviously shivering Bluebirds perched close to the windows under the eaves of house. 10 Robins feeding on barabanks along wall of road. Coal Phoebe still sitting on snow field.

Miss Eaton reported 4 Evening Grosbeaks near her house at 8 a.m. Dexter saw 8 (1 ♂, 7 in ♀ fl.) there at noon.

I spent whole day in house working letters constantly. Poor little Jimmy with his very unhappy because he had no work about

Concord (Farm)

3rd Century Landscaper

First Hydr

Ther Monday, April 10, 1916 Wea
Pine Siskins, Evening Grosbeaks

Brilliantly clear & comfortably warm with light N.E. wind. "While world at early morn the ground uniformly covered with snow 14" deep, every branch & twig loaded with it, all the tree trunks so completely encased that the woodland everywhere looked as if made up wholly of white branches - a novel effect. Sunlight painfully dazzling at first. Much bare ground by noon & exposed fields mostly bare by evening. A large brown Bunting on wing over snow at 10 a.m.

No sight nor sound of Bluebirds. Only a few Robins. One silent Phoebe at Puffin Rock. Flocks of juncos at Farm & about 20 in Birch Field feeding in tops of birches as was 5 Goldfinches. Heard a Pine Siskin there. 2 Fox Sparrows front of house. 2 Blue jays & a hen Pouter in (Birch Field). Dexter saw the 8 Evening Grosbeaks (1 ♂, 7 ♀) at Miss Eaton's. Hebe Howe asked her to let him shoot our best she refused.

With Barabank & George I spent day on Puffin Rock mostly cutting & burning trees & brush. In evening with me

One Hydr, the first, peeping, clouds clear, 3 P. in front of house

Concord (Farm)

Ther Tuesday, April 11, 1916 Wea
Evening Grosbeaks (2) Kingfishers - Fine

Brilliantly clear with light N. wind.
Ground hard-frozen at sunrise. Most
of day comfortably warm.

Wood Frogs in deafening chorus in
pond. Below orchard, also in river.

One Hyla peeping in lawn.

Not very many birds & only a few singing
I saw juncos. They were at their best, in
upper orchard, 3 P.R., flooding calm air
with musical melody of soft bird calls &
liquid notes. 3 Fox Sparrows, one singing
decisively. Silver Pheasant on lawn called.

One Pheasant in full song. 2 Goldfinches
buzzing at bay. Red-throated Hawk
soaring high with ringing screaming over
or beyond our corn pasture. Dead silver
in woodland seen for Frogs.

at 8 a.m. 2 Kingfishers flew low over our
orchard, rattling. One kept on motioned, the
other alighted for 1/2 minute across a water
spring in top of clove over cave.

Miss Eaton expects 8 Evening Grosbeaks about
has been all day yesterday but none there
to-day. Toph. heard, heard only song up at
day break. One, warbling was heard.
I spent morning calling & boom-up on Puffin &
mew, afterwards feeding at bird house.

Concord (Farm & bridge)

Ther Wednesday, April 12, 1916 Wea
Evening Grosbeaks seen by W.B. Mix ed.
Forenoon raining up to 10 o'clock; after that thin
cloudy. Afternoon partly sunny. Light N.W. wind.

Miss Mary Eaton telephoned at 9.15 that the
Evening Grosbeaks had reappeared. I started as
soon as the Ford car could be got ready &

reached her house about 9.45. The birds had been
seen near the house only five minutes before but
were gone when I arrived. We soon found them
on the hillside beyond in a grassy hollow, the
single ♂, a much handsomer bird than either of.
Toph. at Lexington, was on the ground at first which in
an apple tree above him were 10 birds in 2 flocks.
There the flock numbered 11 members in all although
not more than 8 have been seen before at Concord
since the first day (8th) when Miss Eaton thought
she saw about 12 but made them 4 or 5, 6.
We watched them this morning for about 1/2 hour.
They remained long in the apple tree, sometimes
scattered all over it occasionally clearing near
legends, picking fruit & talking, hopping on
flicking listlessly when they moved, even though
& in air of movement, silent for the most part
but every now & then uttering the strong Sparrow
calls, easily mistaken for those of the Sparrow but
apparently shriller & more peeping or as Miss B.
said, much like (i.e. Hyla) - little. Other than
these notes I heard no vocal sounds whatever.
There was a Horn Sparrow (1) with them in
the apple tree. At length they left it & went
straight over the hill to a cluster of grey beeches
where they alighted & remained for many
minutes, as silent as before. Finally
they flew over a 2nd wood. Where
they have been feeding mostly since to the
house. I found the ground thickly strewn
with worm cast seeds & with a few 5 ft. tall
& over a foot through at bay which I think
is a bay elder. A large ash stands well
far off but they have not been seen to touch
it abundant seeds on which Purple Finches
were feeding at 11.30. Spent 5 P.M. in
the field at 11.30. Spent 5 P.M. in
Puffin Hawk woods with Toph & George.

Concord - Boston - Cambridge

Ther Thursday, April 13, 1916 Wea
Dull.

Early morn Sunny followed by a dull
cloudy, rather chilly, day, light N.W. wind

Leaving Farm at 7.45 Gilbert motored
me to Concord where I took 8.03 train for
Boston, he keeping on to Cambridge with Jimmy
In cars found Geo. White & Charles Prescott with
both of whom I talked. Prescott has fed a
flock of 12 Meadow Larks & another of 14 Larks
near his house all winter.

Reaching Boston I went first to Park. Rollins
place & bought 2 pps. White Fronted Pigeons.
Went to our office where I spent forenoon.
Darling had been offered \$4000 cash & an
equity of \$5000, in a Commercial St. Store for
our Pearl St. block & a house in Roxbury. H.C.,
Galloupe & Buttrill seemed to favor the
exchange. But John Abbott whom I sent for
said at once that the Will did not sanction

any such transaction. Darling then sold the
house for \$3400. It cost us over 6000, by far.
Called on Father to buy seeds & at Mother's for
Easter Egg for C. Home at 3.30. Walked
in Museum until dark. Called on Walter &
Margie. I came after that. Spent evening in
hall with C. & B. R. S. who had about 200
A. Fox Sparrows & Purple Finches in full song
in garden. Several Robins looking

Cambridge - Concord (Farm)

Ther Friday, April 14, 1916 Wea
Another snowfall Stormy

Dark cloudy, with strong intensely
chilly north-east wind and steady
downpour of rain which changed to
snow at 1 P.M. covering the ground to
a depth of an inch or more & loading
the tree branches, by nightfall.

In Garden: a Fox Sparrow, singing
divinely; at least one Redbody Oriole,
also in full song; S. Gray Purple Finches,
one of which sang fairly well; 2 or 3
Robins; Crows heard.

Gilbert & I had a dreary & very chilly
ride back to Concord. Starting at 10 a.m.
we first made a short halt at Harvard
Camp and left a long one (over an hour)
at Black - Robinson Nursery where I
bought 18 Box Birch & to my great
surprise found Montagu Chamberlain
installed in Gladioli department.
Reached Farm about 12.30. Made
latter after dinner until 6 P.M. when
Jimmy & I had a rather long & very
interesting walk through the snow-clad
woods. Very beautiful to behold in
this conventional winter garb.

Concord (Farm)

Ther Saturday, April 15, 1916 Wea
Fair

Brilliantly clear with fresh N. W. wind
Winter-looking morning with ground
completely covered to a depth of two
inches & trees well coated with snow.
It melted fast under the sun's strong
rays & was wholly gone by night even
in the depths of canyon crevices.

Spent most of forenoon on
hedges near Charley's horse's groom, where
Blackbirds & Grays were hunting &
singing freely. Chickadees singing
& Red-shouldered Hawks hovering.
Bluebirds singing well on early morn.

Wrote letters after dinner. H. M. Spelman
arrived at 3.40. He stayed one
hour & spent the night at my farm.
wrote until sunset. Came upon
these ~~thousand~~ ^{thousand} thrushes together among
pines near Pulpit Rock. A
Robin in full, delightful song
in front.

Concord (Farm & Ball's Hill)

Ther Sunday, April 16, 1916 Wea
First Chilly - Good Days

Cloudless, a warm windless, delightfully
warm & spring-like. The very best day of
the spring thus far. Crocuses in full
blossom all about the house. Squirrels thronging
in flocks. Hylas birds about to burst.
Baltimore Orioles & 4 species, including
the first ~~cherry~~ ^{cherry}, flocking about. Wood
Peckers in full cry by hundreds in every
faint place. Nearly full chorus (for first time)
of Hylas at evening.

Not only many birds but also singing
freely - Robins, Blackbirds, Gray Sparrows,
Juncos etc. First Chipping Sparrow.
Partridge Caper singing in dusk & a. m.
Sapsucker singing at P. M. in moonlight
happened after off. Tentative Hylas Black.
5. Swallows about boxes at Farm, & in
Barn's Pasture. Goshawk(?) on Birch Tree.

Extensive forest wood Peckers clearly in
flocks. They were all as uniformly blackish
as the ~~black~~ ^{black} colored Wood & the Black.
had ~~black~~ ^{black} and ~~off~~ ^{off} 3 ft. away.
Hylas Sparrows & I came to Ball's Hill
in forenoon, day beautiful & perfect.
There, no one on road. One that was singing
the ~~first~~ ^{first} wood from ~~the~~ ^{the} wood Peck.
Could find no ~~very~~ ^{very} strange in B. H. forest.
In road after noon, the birds again
about about wood forest in ~~the~~ ^{the} forest.

Concord Farm

Ther

Monday, April 17, 1916

Wea
Dull.

Cloudy with light, warm S.W. wind which brought rain in late P.M. Vegetation beginning to advance. Gooseberry bushes ahead green with partly expanded leaves. Alders lining with yellow catkins. A few Red Maples in blossom. Lilac buds about to burst. Grass very green. First noted: Ruby-Crowned Kinglet & (Barn Swallow), Field Sparrows (one apple orchard), Barn Swallows (by Dexter, at Concord), Purple Finch & first for our farm), Marsh Hawk & flying over Lawrence's field,

Spent forenoon setting out rose bushes with Burbank, plump Thimbleberry & other farm work.

Dexter came down to dinner. After a we had a pleasant & interesting walk through Birch Field & about Farm. Robins, Bluebirds, Wren, Song & Field Sparrows, Goldfinch, & Ruby Crowned Kinglet flying freely. Bred by G. P. 19

Concord Farm

Ther

Tuesday, April 18, 1916

Wea
Cold & drear

Cloudy with strong, cold north wind, accompanied, in late P.M. & evening, by frequent showers of sleet & rain.

Birds not much in evidence & for the most part silent although 2 Field Sps. chattered incessantly in forenoon. I heard no Robin & only a little Bluebird or Song Sparrow music. Two Rusty Blackbird in choir by corn pasture uttering their jingling melody. A Meadow Lark singing in Lawrence field. Started 3 Towhees (♂ & ♀, in Birch Field, one of the crows flying from a stone wall where he had been heard driving a few moments before.

Frogs scarcely silent all day. Toad described. Burrows & signs as might near to a house at Concord. & says they have been out a month or so.

Spent forenoon with Burbank transplanting fruit & other trees. Worked through Birch Field after dinner. At 4 P.M. returned to Concord & took Mrs. Mahon to sleep. Walter's sheep on escaped & killed one of the flowering of near laurels & some other

Concord (Farm)

Ther Wednesday, April 19, 1916 Wea
Goshawk Fine

Brilliantly clear with high, cool W. wind. Hazy in late P.M. when it dulled. Small birds mostly silent & not otherwise much in evidence. Bluebirds & Meadow Larks sang rather freely but I heard no Robin music nor Song Sparrows, etc.

About 3 P.M., while standing near Pulpit Rock, I saw a ♀ Goshawk coming directly towards me from Birch Field. It followed precisely the same course & direction as the one seen on 16th & was, no doubt, the selfsame bird. It looked almost as big as an Osprey but had the form & proportions of a Cooper's Hawk & much the same exceedingly swift gliding flight performed with only an occasional wing beat & suggestion alike of leisurely stealth & terrific momentum. As it passed within 60 yards, in full sunlight &

below tops of taller trees, I could see that it was not fully adult, the blue of the upper parts being tinged with faded brown & the lower parts very coarsely mottled with blackish. This, doubtless, was the stage of all the Peregrines when feathered. I have found a late about one week spent most of day in Pulpit Rock woods where Zeph & George were, killing tiny birds.

Concord (Farm)

Ther Thursday, April 20, 1916 Wea
Perfect

Clear, warm, almost windless.

Birds singing freely & delightfully all day long. Yet present in no great numbers apparently, Juncos being the only exception to this rule. Of them I saw at least 40 in our orchard which they enlivened by their ceaseless chirpings & low, sweet, tinkling songs. Our Phoebe was in & about the barn all day but the ♂ kept silent. A Towhee was drumming on the stone wall in run at 10 P.M. last night & through most of to-day. Bluebirds still singing freely. Only single pair of Swallows. At 3 P.M. my attention was called by Burbecks to a big bird passing over N.E. at an immense height - fully a mile I thought. Even through my glass it looked ten times larger than a Swallow. I took it to be a Fish Hawk, migrating.

Burbecks & I spent entire day gathering apple trees. Zeph & George became as numerous as q of brush in wood run near Pulpit Rock.

Concord (Farm)

Ther Friday, April 21, 1916 Wea
Washed Dull

Dark cloudy with a little fine rain in morning. Light easterly breeze. Rather cool.

Not many birds nor much bird music. Saw from Bluebirds in early morning. Juncos through day. Robins at evening. A Carolina Dove coming at short, regular intervals about 9 a.m. in Prescott pine woods. Pine Warbler & Ruby-crown Kinglet singing in forenoon near Pulpit Rock. In that same neighborhood a Weasel was seen, running along an old wall, by George. He says it was almost a foot in length, largely white in color and very feebly, glaring at him threateningly, he thought.

Spent entire day in Pulpit Rock woods with three men. George & Sept cleaned up the base of the brush & down timber. Benbow helped us to transplant a lot of young cedars & a few laurels & hawthorn & grand junipers.

Concord (Farm)

Ther Saturday, April 22, 1916 Wea
 Stormy

Forenoon cloudy with strong, chill, N.E. wind. Raining heavily all afternoon. Altogether a rather depressing and uncomfortable day out of doors.

Comparatively few birds & their mostly silent save a Field Sparrow, (evidently not the selfsame bird as 17th) who sang wonderfully in early morning in orchard near house, & two Flickers, who shouted furiously most of forenoon. Saw a pair of Purple Finches in orchard & heard a Yellow Tailed Sapsucker chirping there.

The Robins are again building in our wood shed beginning, as they did last year, the futile attempt to make dry grass serve as a wind-swept sleep chamber. The ♂ looks like our 1915 one but the ♀ is very dull & light colored & evidently not the same.

Spent forenoon with Benbow & looking in nursery stock, just arrived, & gathering apple trees. Made letters & read in afternoon. Collected seedlings to Concord & will grow in nursery.

Concord (Farm)

Ther Sunday, April 23, 1916 Wea
Fox barking at 6 P.M. Stormy

Dark cloudy with strong, keen N.E. wind and cold rain, very heavy at times. Brooks swollen, swamps flooded & pools of water standing in many cultivated & grass fields. Thus far we have had an exceptional wet as well as cool spring. The vegetation is advancing. Our gooseberry bushes are now in half leaf & lilac buds are bursting open.

Hardly any birds in sight or hearing. The only species hanging over Robin, Flicker, Meadow Lark & Red Wing. Upwards of a dozen juncos in the orchard. A Barn Swallow flying over it. Started 2 Parula's, in Berry Pasture, one in Birch Field.

Spent most of day in house writing letters but Jimmy & I had a rather long walk in forenoon & another in afternoon. Heard a Fox bark twice at 6 P.M., near at hand in Birch Field.

Concord (Farm)

Ther Monday, April 24, 1916 Wea
Robin building on steep ladder Stormy

Dark cloudy with incessant fine, misty rain driving before strong & intensely chilly north-east wind.

Few birds seen and fewer still heard. Robins sang a little at dawn, Vesper Sparrows & juncos later in morning. A Parula's, drowning in the run just after dawn. A Pheasant came down at evening. No sound whatever from Wood Frogs or Hylas. Altogether a very dreary day with little of interest to be noted in fields or woods. I spent it mostly in the house rearranging pictures & other things & writing letters. Humboldt completed a new window for one dining room facing north. It has a single big pane of clear plate glass.

The Robin worked at intervals at the foolish task of bringing dry grass into the shed & distributing it about evenly on four steps of an steep ladder than on finally put up a shelf for her & hung up the steep ladder.

Concord (Farm)

Ther Tuesday, April 25, 1916 Wea Fair

Clear & warm with light easterly wind. Clouds gathering at sunset.

Birds singing freely all day but not many about. Near farm house 6 Robins, 2 Chiffins, 2 Song Sparrows, 5 or 6 Juncos, Blue bird, Phoebe (Sibert), 2 House Sparrows, Meadow Lark, 6 Tree Swallows. 2 Partridges drumming almost constantly in ever, one near road, the other at the old station above Pulpit Rock. Also in the ever, at 4 P.M., I started a Broad winged Hawk from a tall Chestnut where it flew to a tree when I waved it with. It was a very small ♂, looking indeed, older bigger than a Sharp-shin yet was not totally a Broad wing.

A single Red Crossbill in from woods.

Spent day out of doors, mostly near house supervising men. Harris & two Scibbards laying down, Burbank & Liph mowing near front lawn, George rolling, Newton & two men laying up wood.

Concord (Farm)

Ther Wednesday, April 26, 1916 Wea "No. Nine" at Farm. Stormy

Light cloudy with chill east wind. Raining steadily through A.M., lightly & intermittently in P.M.

Not many birds. 10 juncos feeding on lawn front of house, Ruby-crown Kinglet singing near Pulpit Rock. Carolina Dove cooing (at 5 P.M.) on Davis Hill, another, later, flying through ever towards Burbank. Snipe drumming at 7 P.M. twice over Lawrence's field across road, a third time farther off & towards river. Hawk seen distinctly from one farm house.

Spent most of forenoon in house rearranging things & preparing for the No. Nine meeting, here to night. Jeffries, Rand, Jackson & Walter Deane arrived at 3.35. Took them for a walk to Prescott pines, Beech Island etc. Returning to Brook Pasture we were joined by Harker, Labaree & Spahn. No. Nine did not get on very well. My guests departed at 10 P.M.

Concord (Farm)

Ther

Thursday, April 27, 1916

Wea

Fair

Thin cloudy with occasional brief
gleams of pale sunlight. Cool, bright
N. E. wind.

7 Tree Swallows about byes and 50+
juvies in orchard, the former looking
the latter trying, swiftly & carelessly.
Purple Finch in full song near house &
Rusty. Crows in Cedar Park, both with
voices of ready for & perfect quality.
Song of Meadowlark, before & song
Sparrows coming from somewhat farther
off. as did also the voice of a Field Sparrow.
Robins sang only at evening & then
but little. They seem much scarcer now
than they were a week or more ago.
I see only one pair near the house.

The Phoebe on Hill frequenting our
back cellar but the ♂ sings not at all.
Heard 2 Night Hawks, evidently coming
not far from Pulpit Rock, at 7.30 P.M.

Spent forenoon with Barbours & George
Sethup, out Zephany & Sheldrake plants.
Superior dog yard later for long before
barrels from Hartford, in P.M.

Ther

Concord (Farm)
Friday, April 28, 1916

Wea

Stormy

Heavy snow - storm

Snowing quite ceaselessly & for most part
very heavily from sometime last night to
4 P.M. to day. The big, wet flakes, coming
thick & fast, cling to every twig, branch
& tree trunk loading the evergreen
foliage & bending the young birches in
bowed inclining earthward. Never have
I seen the woods more wonderfully
beautiful than they were at 8 a.m.,
when Jimmy & I went to Birch Field
& Prospect farms. The depth of the snow on
the ground was then 4 inches. It had
increased to 6" by 3 P.M., & thence to
2" by nightfall when Jimmy & I
had another walk - through Barry Pasture
where I found a freshly dead Muskrat
in the brook. It bore no obvious mark of
injury but near it was fresh tracks of
a mouse or a large Weasel, the former
I thought. The stars bursted peacefully
all this forenoon. Jimmy saw a Song Sparrow
or heard only 2 Robins, one Song Sparrow,
one juvie, 2 Crows, a Partridge & Phoebe.
The Song Sparrows were & heard by a Meadowlark
back (calling) near the only bird house
seen that of the property, the house
for the first time this spring.
Spent most of day in house writing
letters & chatted for letters.

First Concord (Farm)
First Garden Woods. Blood east in bloom.
Ther Saturday, April 29, 1916 Wea
Transformation scene, winter spring, Perfect.

Cloudless, windless, very warm.

Wintry landscape in early morn. Snow
covering everything to depth of 4". Fields
partly bare by noon, totally so by night
with the greenest of grass & many early
flowers about our house. Much snow
still left in evergreen woods.

I was awakened at sunrise by a
pair of Tree Swallows calling musically
at a big tree near my window. They were
about all day but no others appeared.
It was interesting to see them & Anthracoceros
flashing over the snow covered fields.
A Purple Finch, before Sparrows, Chipping,
Meadow Lark & Song Sparrow, singing
freely in forenoon. Our Phoebe sang a
little. Blackbird heard calling only.
A ♂ Brand wing passed three birds over
me in orchard, one pursued by a Crow,
one calling Klee-dee, its flight very
beautiful to behold being able to zigzag,
effortless & graceful as it alternately
stopped slowly & started on its wings.
One of doves about 7 A.M. on the
Newbury House in A. L. Hill.
Bobcat & 2 grays off to West.
A few Goshawk heads visible at coming within

Concord (Farm)
Ther Sunday, April 30, 1916 Wea
Robin fluttering against window. Perfect.

A heavenly day, comfortably warm, with
cloudless, tender blue sky & light easterly wind.

First notes: Yellow-rump ♂ & ♀; Black &
white Chipping, ♂ & ♀; Sparrows Hawk.
With Yellow-rump near Ruby Crown Kinglet
& Yellow Palm Warbler, both in first song.
Saw 3 other Yellow-rumps widely scattered &
each alone. Field Sparrows, with first, clear,
ringing song, in bushes front of house.
Sparrows Hawk flying high & swift S.E.
Saw a new Greater Yellow-bird calling at
3 P.M., apparently at Harris meadow (fenced).
From 12.30 to 1 P.M. & again later
in afternoon, a ♀ Robin, evidently the bird
that has been attempting to nest in our shed,
came to the back windows of town room
of house & fluttered against them until
almost exhausted when she would retire to
the nearby apple tree & perch for a minute or
two pointing, with half opened bill, before
flying again to the windows. She never once hit
it very hard or remained as it was there
a few seconds. John drove away the sparrow.
returned. In Sept. 1913, a young Lark sparrow
did nearly the same thing at same time
window. (old fashioned ones with second hand)

Concord (Farm)

Ther

Monday, May 1, 1916

Wea

Fine

Sunny but hazy. Light southerly wind. Warmest day of season thus far. Black-bird in full bloom. Squirrels at last. Loads of birds numerous & merry.

First noted: Bobolink at 4 P.M. flying over south very high in air with bursts of prolonged ecstatic song, thrilling me with joy & grateful as I stand looking. About the same time 2 Black Dicks flew over eastward so high that they looked no bigger than Sparrows.

Of other birds there were only those noted daily of late in Robins, Chipping, Purple Finch, House Sparrow, Field Sparrow, Phoebe, Pewee, Yellow-rump & Yellow Red Poll Warblers, Flickers, Meadow Larks. All this song very soon Robins & Phoebe birds of which seemed quite silent. I saw 3 ♀ Robins engaged in one of their characteristic noisy but harmless squabbles. The ♀ again flattered an male back and forth (in early notes) but closed when he closed the blinds. Spent entire day sitting out trees, mostly among bushes & box elders, from Harvard.

Concord (Farm) Just caterpillars out

Ther

Tuesday, May 2, 1916

Wea

Fine

Rush of increasing migrants

Blue & very warm with light S.W. wind.

Very many birds arrived from the South.

First noted: Brown Thrasher ♂ (near hen house), House Wren ♂, Black-burnian ♂ (near hen house), Black-thr. Green ♂ (Ruffin R.), Prairie ♂ (full song heard, once near at hand, Cedar Lake. Did not see bird), Purple Martin 2, Bank Swallows (Chatter head), Yellow-thr. Vireo ♂ (near house). All these

seemed represented by only one or two individuals each but of Yellows rumped Warblers there were at least 50 in one scattered flock. Compared mostly, if not wholly of males. They drifted back & forth all the forenoon in the apple orchard & the oaks & hickories behind our barn. With them were 2 or 3 Yellows Robins. I failed to find either species elsewhere about the place.

Of earlier arriving birds there seemed no increase save of the Swallows 6 in number.

Our Phoebe however suddenly silent about the same cellar. The nest there had 3 eggs to-day.

Early this morning the ♀ Robin was flapping as persistently as ever, but at another hour back over her nest & over her back wing. When we hear a quiver on the outside the bird is seen leaning forward pointing on its back in that weird way of showing it is again.

Spent most of day near house sitting out, mostly in the field with two or three at hand.

Concord (Farm)

Ther Wednesday, May 3, 1916 Wea Fair

Forenoon sunny but hazy; afternoon cloudy with distant thunders. Light cool N. to S. W. wind.

Toads trilling & blyles peeping ceaselessly after dark. A few twigs in bloom. Gooseberries in full, huckleberries in partial leaf.

First noted: Nashville Warbler 1 (in trees near big elm), Solitary Vireo 1 (in Cedar Peak), Least Flycatcher 1 (calling in orchard).

About a dozen Yellowthroats, at least one Yellow Palm Warbler, a P. W. Creeper, a Purple Finch, 3 Goldfinches (one at 5 in newly full nuptial pl.) one or two Chipping & at least a House Wren Sparrow, in apple & other trees near house. 6 Swallows about boxes. Kingfisher perched at pond, calling long & loud. Robin building in pines. Robin & Phoebe seen only 1 each.

Working all day with Birds & Grass. We transplanted Sparrows & Banks pines in A.M., & set out 3 or 4 blueberry plants in P.M.

Concord (Farm)

Ther Thursday, May 4, 1916 Wea Fair

Early morning cloudy & misty. After that clouds clear, light N. W. wind, warm sunshine. Heavy Annular Shower last night.

First noted: Down Bird 1 (in trees), Bittern 1 heard at our farm house, in direction Bigelow Brook. Just before breakfast (7 a.m.) I saw through front window (plate glass) a bird flying from Cedar Peak across open field to our big elm in the top of which it alighted. The first glimpse I took it to be a House Finch or Grasshopper, but as soon as it perched came with a call of grasshopper, that it was a Grasshopper. The next instant Gilbert & I rushed out to hear it calling loudly & incessantly, using the House Sparrow note, sometimes closely followed by a rolling or chuckling whistle. Soon after this it flew across the road to a cold apple tree near our well house, perching there only about 10 ft. above the ground. When we approached it, closely (within 20 ft.) it moved to our sweet summer house garden. It showed an unusual amount of yellow (especially on the back) & this of an exceptionally pale cast. There was also much comprehension white. Its next flight was up the trunk to an oak near our wash box. Thence it soon took a much longer one to a tall chestnut near Bigelow Brook where I could see it only as a tiny dot, through my glass. We had it in sight altogether about 10 minutes. It called incessantly all the while as if seeking a response from others of its kind but none answered. Always the call was only the House Sparrow note of the rolling whistle that I thought of grasshopper, then further up sat bolt upright & never once moved save to fly again.

Moved to Concord at 9 A.M. Called at John Hall where Mr. Roberts showed me a beautiful lot of mounting. Thence to Shops Holmes where I supervised the mounting of Ten mount are couple begin in Shady House by 11. Working at mounting in P.M. Roberts & I through garden way to well and back, turning got at our & called it a little later, turning got at our & called it a little later.

Concord (Farm)

Ther

Friday, May 5, 1916

Wea
Fair

Forenoon cloudy, afternoon sunny but hazy. Cool, with light easterly wind. Many tulips in bloom. Yellow juncos at base. Squirrels feeding. Crows come by. Garden Toads still visiting freely. Blue Butterflies out. Only a very few Tent Caterpillar nests.

First noted: Cat-birds, singing at dog house. 3 birds in front of house all day, 2 singing sotto voce on mincing bush frequently, the third collecting worms & carrying them about in the bush. Yellow Warbler ♂, with another that looked like a ♀. Maryland Yellowthroat ♂ in Berry Pasture.

3 Dendroica striata ♂. No obvious mark of other recent arrivals. Belated Junco (♀) in orchard.

Spruce day near house working with the men. Set out fence, being sturdy plants, geraniums etc. Harris finished all his work to-day. Monson & 2 men still in it.

Concord (Farm)

Migratory Birds seen in this list.

Ther

Saturday, May 6, 1916

Wea

Rush of May migrants. Rainy heavily at daybreak up to 10 a. m. Sun out by noon. Afternoon hot, sultry, windless.

First noted: Chestnut-sided W. ♂ near Barn;

Towhee ♂ ♀ near of barn; Bat. Oriole ♂ in elm

Noted at El. by Dexter on 3rd King bird, 2 near house;

Cerulean Flycatcher 1 ♀, 7 near orchard.

Increased numbers of Cowbirds, B. & W. Chiffchaff.

Bl. thr. Green Swallows, Nashville Swallows.

First Bats in shed left - 3 in number.

Spent most of day transplanting things mostly biennial perennials. Burbank setting out lettuce & tomato plants. None of our other men come to work to-day.

Jessie & I had a good long walk in woods & fields just after breakfast & another at evening. There are almost no Brown Creeper nests this year & still few Tent Caterpillars. Of the latter I have thus far found less than a dozen in all.

The ♀ Robin was beating against the fence border 6-7 a. m. We hung up a white sheet inside the closed door & she did not return.

3 Cat-birds front of house all day, two of them makes singing frequently. The third was carrying wood shavings into bush & placing them there as if for foundation of nest.

Many birds singing freely all day long.

Concord (Farm)
First Plum & Cherry blossoms:
Ther. Sunday, May 7, 1916
Pigeon Hawk & Sharp-shin.

Wea
Fair

Partly sunny; mostly cloudy. Distant
thunder & sprinkle of rain at sunset. Strong,
cool west wind blowing all day. Plum trees
in nearly full bloom, Cherry trees showing a
few blossoms. Both uncommonly belated.

First noted: House Wren singing at sunset
& later from top of house. Entering box & song.
Delightful bird music through forenoon.

♀ Robin beating steadily for hours V.I.A. 3 P.M.
against back hall wind from which was
removed cloth this morning.

Standing in cultivated field front of house at
4 a.m. I saw two small Hawks coming over
following the other plane 50 ft. up. They came
straight to within 60 yds. & then began circling
& soaring & swooping downward to ground upward
again. One was a ♂ Sharp-shin, the other a ♀
Pigeon Hawk. Watching them closely I saw that
the latter was always the aggressor in the
lunging attacks while however were otherwise
fully sportive & evidently not at all disturbing
to the Sharp-shin who took them calmly
enough merely dodging when too close pressed.
The latter seemed to be very smart. The Pigeon
Hawk uttered Cee, Cee, Cee notes shrill &
squeaking, somewhat like a Duck Hawk's but
more disconnected & never near 3 or 4 in
number. The Pigeon Hawk was swift & supple
in movement, the Sharp-shin buoyant & more
businesslike. Yet at times they seemed to work
very nearly alike. They finally rose high
& went off eastward together.
Living. I went to bed & did not
wake up. He started a Rabbit over
I went to bed & did not wake up. Mrs. Melvin
cooled at 12.30.

Concord (Farm)
Monday, May 8, 1916

Wea
Perfect.

Brilliantly clear & agreeably warm; light
variable winds, mostly easterly. Raining at 8 P.M.
Tulips in full bloom. Mertenia beginning.
Blood root past. Viola sagittata at its best.
A few Hawthorns. Barbours, paper birch &
apple trees green with tiny leaves.
Hyles & Garden Larks still in full cry.
First yellow Butterfly.

First noted: Wood Thrush ♂ singing in
run near foot of lane 5-6 a.m. when I
listened to it as I lay in bed with my
windows open, pleasantly as happened at the
same hour, but one day later in the month,
last year. I wonder if this was the selfsame
bird and if now, or then, it will not be
heard a second time. It was a rather
in-fancie singer.

Despite the perfect May weather there
was comparatively little bird music even
at early morn. Few north-bound migrants
passing. Only obvious ones a ♂ Yellow-rump.

Spent forenoon working in farm garden,
afternoon at Barrett Spring where George & I
grazed about dawn & set out barrels.

Concord Farm,

Shad bush in bloom

Ther

Tuesday, May 9, 1916

Wea

First Dandelion blossom Time
Whiff now with

Brilliantly clear with raging & chill N. W. wind. Only in sunny places well sheltered from it was the air comfortably warm even at noonday. In such places a few Shad Bushes came into nearly full bloom. & here & there a stray Dandelion blossom appeared among the grass - a welcome sight.

Whiff now with singing to N.W. at 9.30 P.M.

Comparatively few birds to be seen or heard anywhere about the farm. Most of them were apparently subdued & also driven into sheltering cover by the strong, hostile wind. I noted none near to my spring box ^{except a} and failed to observe anything of especial interest in the bottom all of those seen.

Early this morning the ♀ Robin was again beating against pantry windows. Jimmy & I took our usual walk at noon. As my no head lamp he started a ~~to~~ woodcock in open ground under scattered ferns just one the corner from S.E. corner of our cow pasture. Spent most of day among fruit trees. We shall have peaches, before all.

Concord Farm & Ball's Hill.

Ther

Wednesday, May 10, 1916

Wea

Fair

Early morning clear. Afterwards cloudy with strong, cold westerly wind. Grass fields white with hoar frost at sunrise. Graying and pink in bloom. Indigo birds - handsome to first noted. Birds for most part silent & comparatively few to be seen. A Partridge downing near head of Run & a British perching somewhere on southern edge of Great Meadows (still flushed). Yellow rumps still lingering in small numbers.

♂ Indigo bird in Forsythia bushes front of house

Spent forenoon at Farm pruning fruit trees, tying up vines etc. In P.M. went to Ball's Hill with George to dig some seedling hemlocks. We found plenty of them 6" to 15" tall under the large trees on north slope of hill. Started a few Partridge there. No small birds seen or heard. The woods seemed quite lifeless & the catbirds & thrushes seemingly locked, as they sang doated & neglected. Back to Farm by 4. After that walked through Barry Pasture with Jimmy.

Concord (Farm & Sleepy Hollow)

Ther

Thursday, May 11, 1916

Wea
Fine

Cloudless with westerly wind blowing half a gale. Very warm. Vegetation advancing fast. Shrub bush in nearly full bloom. Fields thickly spangled with golden Dandelions. Apple trees pink with fruit buds & a few of them opening. Many plum trees in fullest bloom. Grass tall in places & leaves numerous already coming.

First noted: Redstart ♂, Sleepy Hollow.

Increased numbers of Chestnut-sided Warblers & Downy Birds. Most birds singing freely all day long. Indigo bird in full song.

To Concord at 9 a.m., meeting, by app't, Mrs. Melvin there. She brought with her two Maine Potatoes. 50 pounds which I had ordered from Shady Hill had arrived & we left William planting them, nothing to do to farm where I took her ladies to Birch Point Sport P. C. planting & working flowers. Mrs. & Mrs. E. W. Emerson called at S. P. C. staying half an hour. Very fine day all last night & rather balmy to-day.

Concord (Farm)

Ther

Friday, May 12, 1916

Wea
Fine

Clear and cool with fresh N.W. wind. It blew almost a full gale thro' last night. Vegetation at a stand-still again.

First noted: Magnolia Warbler heard giving the Trich-like call note in Cedar Park. Warbling Vireo ♂ singing & uttering the nasal scolding note, in thick overhanging road near our house.

No obvious increase in local Summer Birds. They sang a little but not freely except in early morning.

Tree Swallows copulating on or near their nest boxes at least three & I think four are now occupied. The ♂ of a pair in a box near my chamber window called the odd day break song there every morning as soon as it is light.

I see only one pair of Goldfinches about the place and no more than a single Chickadee.

Spent entire day out of doors. Worked in flower garden in A.M. and planted hardstocks day yesterday & Iris received from Jackson, in P.M.

Concord (Farm)

Warbler day. Moderate light. N. wind & rain.

Ther Saturday, May 13, 1916 Wea
Orange-crown Warbler, White-cb. Sparrow. Perfect

Clear, rather cool, light westerly breeze.
Shad bush & cherry trees in fullest bloom.
Only a few apple blossoms as yet.

First noted: Veery, calling in thicket at once.
Orange-crown Warbler, tame silent, some for
occasional chirping, dull-colored bird,
apparently ♀, in grape vines & also in
hedge, near front yard, 6.30 a.m.
Black-throated Blue Warbler & Red-eyed
Vireo near Pulpit Rock; White-crowned
Sparrow, 2 ad. first seen at 7 a.m., on
ground in front of house; followed to
Lansdowne our dog many times - a
swift, plaintive song. When I mistook this
the bird would often appear at once.
2 Cedar Birds in blossoming apple trees.
Small flock of Mockers near Pulpit Rock
included a Magpie, Wren, Nuthatch,
Oven Bird etc.

Many birds singing freely all day.
near house - Orioles, Grackles, Purple Finch
etc. & House Wren flying over orchard.

Jimmy & I had a short walk before
breakfast & a longer one after it.

I spent most of day walking among
the flower beds.

Concord (Farm & Emerson place)

Ther Sunday, May 14, 1916 Wea
Fine

Clear & cool with light northerly winds.
Clouds gathering at sunset.

No fresh arrivals noted. Mixed flock
of north-bound migrant Warblers, a dozen
or more in woods, in or near run not far
from Pulpit Rock; adding them 2 Wrens,
2 Black-throated Blue, one Magpie, one
Black-burnian, several Nuthatches.

A White-crowned Sparrow haunting lane
& singing very near & then all day. His
song reminded me in quality of that of
the Meadow Lark. It was very sweet &
plaintive with little or no resemblance to
that of Peabody Bird.

Jimmy & I started for a long walk just
after breakfast but had gone no farther
than Pulpit Rock when two Thrushes on the
hill side recalled me to the house where I
found Fay & Mr. & Mrs. Blinn. They stayed
upwards of an hour. At 1.15 P.M. I
retired to Concord to dine with the
Emersons (Mr. & Mrs. & Ellen). Returned at 3.30
Harry & John Baileys arrived, at 4 & stayed
until 6.

Concord (Farm)

Ther

Monday, May 15, 1916

Wea

Scrub Owl in barn

Dull

Cloudy with light cool easterly wind & more or less fine, misty rain. It rained more heavily last night.

First noted: Eow Swallows, 1 flying high & uttering cork-in-bottle notes. Scrub Owl, gray bird perched in heart-shaped aperture cut under gable end of our old barn, looking out through almost closed eyes. Thus in sat late upright for several minutes at 9 a.m., a Robin clanging at it fr. nearby elm shortly after this it had disappeared.

Birds singing freely all day. White-crowned Sparrows treating me to many a sweet pleasant serenade in lawn & Torrey chin thicket. Herons flapping Rietveld's place & Cedar Park with its gloomy music. Grosbeak singing softly near house. Redwing in downy fields. 2 House Sparrows, House Finch several Wrens & Nashville Warblers in blossoming apple trees. Belted Kingfisher coming at evening from downtown Nash Island.

Then long warbles in farm woods & fields with Titmouse. The flushed Phoebe & Redstart & several other Catbirds note of which latter means ~~have~~ appeared of late in a few places.

Concord (Farm)

Ther

Tuesday, May 16, 1916

Wea

Stormy

Dark cloudy with chill N.E. wind and incessant fine, mist-like rain loading every leaf & grass blade with shining drops of moisture. Vegetation at a stand-still & conspicuously retarded as well as advanced. Thus all cherry trees, many peach trees & a few plum trees are still in full bloom together with some apple trees - a very unusual condition. Small blossoms passing. Tulips still holding well.

First noted: Wilson's Black-cap ♂ in Berry Pasture; Heron bird seen in front of our house & Black-bell Woodpecker heard in fairy land, by Dexter.

Handsome White-crown Sparrows spent day in Torrey chin thicket, front of house, singing freely only in early morn. Few other birds sang much & not many were to be seen.

The Scrub Owl again looking out of heart-shaped hole of barn at 10 a.m. & not visible ten minutes later. We could not find him inside.

Spent much of day in doze, writing.

Created two catapillars etc. & had 3 warbles with Titmouse. Dexter came to drive & warbled with me in woods later.

Concord (Farm)

Ther Wednesday, May 17, 1916 Wea
Apple orchards on nearly full bloom. Stormy

Raining steadily & very heavily all last night & through forenoon to-day flooding swamps & overflowing brooks more than has any previous storm this spring.

The brook at Bassett Spring a rushing torrent with many beautiful little cascades when I visited it at 4 P.M. The skies had then cleared & the sun was shining brightly with fresh, cool N.W. wind blowing. Wind N.E. through forenoon.

Not much bird music until late P.M. when Robins, Thrushes, Grosbeaks & others sang freely & well. Nothing new noted. White-Crown apparently gone. Could be here migrated. N. downy stormy last night? Screech Owl looking out. born at 10 & again at 11 A.M. Robins preening his plumage with loud clatter.

Spent forenoon in shed repairing tool chest. Out with Jimmy in woods to captured 4-6 P.M. He started

Robins, I observed Cooper's Hawks. Many of them broken with by sawing & full of mangled cones. In several the rounded wing & legs, apparently of the North desert.

Concord (Farm)

Ther Thursday, May 18, 1916 Wea
Robin mimics blue flourishes Fine

Clear & cool with high N.W. wind. Cherry trees & many apple trees in full bloom. Plum trees & shad bush past.

First noted: Scarlet Tanager ♂, Birch Field.

Comparatively few birds seen. Not much music from them until wind lulled in late P.M. when Orioles, Grosbeaks, Robins & Wrens of several kinds sang freely. One of the Robins (near our house) regularly interpolated among its notes & several notes a perfect imitation of the second note (two-syllabled) of the song of blue flourishes. This was rendered so accurately that for a time I was sure there was a blue in the song then. The ♀ Robin was again beating against passing wind (7 A.M.) the flight of N. bound migrants. Noted only one, a D. maculosa. Only one Tree Swallow seen about the box.

Spent most of day repairing lawn mower & working flower beds. Jimmy & I went to Birch Field at 3 P.M. & through Brook Farm at 6 P.M.

Apple orchards in nearly full bloom

Concord (Farm)

Ther

Friday, May 19, 1916

Wea
Perfect

Brilliantly clear with light, cool, W. wind
Last night very cool - almost frosty.

No new arrivals. A few north-bound
migrants in Cedar Park & here, among
them a *L. canadensis*, *D. maculosa* & *Purpurea*,
all in full song. Rose-b. Grosbeak,
Oriskany & Bobolink singing freely & more
frequently, very near house, the Bobolink
in one big elm.

Apple orchards in fullest bloom but
no petals falling as yet. Almost all the
trees, now blossoming, were there last year
heavily last year & do not often bear as
well the next year after.

Several Gypsy moth nests covered with
mud - looked brown. Many oaks &
birches bordering our farming lands
rather badly infested.

Monsoon & 2 more, Zeph & Gump working
on getting new coat for car & shop floor of
lawn. I was with them most of day.
Gibbs took him to Wood Field. The little
dog looked a little grumpy. Woodchuck there

Concord (Farm)

Smaller Wood in Farm Lane

Ther

Saturday, May 20, 1916

Warbler day.

Wea
Perfect

Clear, warm, almost cloudless.

Apple trees still in perfect bloom. Many fresh transplants.
Some cherry trees still white with blossoms.

Purple Larch's delight at very first. White lilies out.

First noted: Tennessee Warbler ♂ & one last near
big elm. Scissor's Thrush calling near Purple Bell.

General arrival of north-bound Warblers, of various
species, in moderate numbers - a decidedly yet
not excessive, in - rush. They were scattered

along the river from Cedar Park to Spring. Here I
noted 3 *D. maculosa* ♂ & ♀, 1 *D. canadensis* ♂ & ♀,

2 *D. blackburniana* ♂ & ♀, 1 House W. ♂ & ♀,
several *H. rubricapilla* ♂ & ♀, 6 or 8 Ovenbirds,

4 Redstarts. One Nighthawk only. Robins in orchard
characteristic in Farm birds as usual.

At head of lawn saw a Wood of the smaller
kind in stone wall where it looked out at me

fearfully & curiously. Scam 10 ft away cawing &
looking at long slender neck - a desperately

graceful & beautiful creature in tail, golden brown
belly, with very long & gentle turning eyes &
black tipped tail. At length it left the wall &
crossed open ground to live with long graceful
bonds & only flight.

More many. Between here 8.15-10 A.M. Dexter &
Blanchard family. 10-11.30 P.M. Henson, Norton &
her & Mrs. Robinson, 3-4.30 P.M. With all these

I think really being out in the woods with
them used by the morning before day.

Concord Farm/
R. H. Dana & family

Ther

Sunday, May 21, 1916

Wea

Weasel again seen.

Perfect

Brilliantly clear with light westerly wind
cool at noon & eve. warmer than day.
Apple blossoms still holding well.

First noted: Canadian Warbler ♂ & ♀ in sun.
Bright flight of other north-bound
humblers including 2 D. maculosa ♂ & ♀,
D. caerulescens ♀, D. coronata 1 ♂ 3 ♀♀,
Parula 2 ♂ & ♀, Lincoln Warbler ♂ & ♀ in
Pulpit R. woods 10 a. m., another (or
possibly the Jefferson) in elm over lawn
at 11 a. m. Belated Peewee heard
chirping in orchard. Local birds singing
freely. Song Sparrow not to be found in
lawn this day but looking out both at 6
gates and at 7 P. m.

Weasel seen again, this time about noon,
moving along wall from big elm towards
Ruth's pt.

Irving & I out from 9-11 a. m. going
to Bird Field & Bay Pasture. Much better
afternoons. Dick Dana arrived at 4 P. m.
to spend night. Mr. Strick & about 7 am
& went to Bird Field before daylight
stayed evening in kitchen looking

Concord Farm/

Ther

Monday, May 22, 1916

Wea

Fine

Clear & warm with S. W. wind increasing this
day & accompanied by gathering clouds in late P. m.
Apple blossoms passing, their petals falling freely.
Rhodora, dandelions, violets, Muscadine in
fullest bloom. Toads trailing. Tree Toads
calling with silence. The latter last numerous
than usual, this spring.

No fresh arrivals noted and not many
north-bound migrants. Lincoln Warbler
singing in elm over lawn, Lincoln Warbler
in sun. Thrasher (in Cedar Park), Grosbeak,
Jaeger, Bobolink & Pine Siskin in full
song. Pair of Barn Swallows entering Burgess's
lawn, with thought of again nesting there I
hope. Song Sparrow and in heart-shaped hole of
Barn owl E. end, looking out, in bright
sunlight, 8 a. m.

Dick Dana & I spent two hours after
breakfast starting thru farm woods. Air
consistently flooded with bird noise, most
of local species. It was somewhat for a
while as we walked. He left me at 9.30
to return to Cambridge. I spent remainder
of day walking among my flowers

Concord (Farm)

Ther

Tuesday, May 23, 1916

Wea

Mead again

Rainy

At noon saw the Mead duck across Longfellow's field both

Dark cloudy with fresh S. W. wind
and almost ceaseless fine rain which
began falling sometimes last night.

No north-bound migrants noted
but two apparently new arrivals at
the farm, a Yellow-throated Vireo singing
near the house & a Red Start in the
near back of barn. Thrasher in full
song all day in Cedar Park & Towhee
in Birch Field. Robins in full
chorus in late P. M. Screech Owl
looking out E. end of barn & A. H.
at least 3, & I think 4, pairs of
Tree Swallows nesting in my barn;
but only one pair of Wrens & one of
Bluebirds. Of Cat birds we have now
at least five pairs, one behind house,
one near poultry pen, one at S. end of
Cane pasture, one in Berry Pasture, one at
Pleasure place.

Spent most of day transplanting things.
Walked to Birch Field & Pleasure place with
"Jimmy" at 8 A. M. & 4 P. M.
Late morning did not appear.

Concord (Farm)

11

Ther

Wednesday, May 24, 1916

Wea

North-bound migration ended?

Fine

Clear, calm, warm. Bright, earthly
wind with gathering clouds, in late P. M.
Many apple trees still glorious to behold,
others shedding their petals fast.
Cherry & peach trees wholly out of bloom.
A few hylas peeping & larks trilling.

No fresh arrivals. Only obvious south
bound migrant an House Wren singing
in run. Several birds of almost every
kind in full & glorious song all day
long, flashing the stick and with
increasing, delightful music. Among
them all a Thrasher, a Tanager, a
Yellow-throated Vireo & 2 Grosbeaks
were most vociferous & persistent.

A very song a little, haltingly, as
coming in over Berry Pasture. The
Screech Owl was looking out at E. end
of barn at 8 A. M. & later perched on
eaves inside.

Spent most of day working in flower beds
with George. Walked to Birch Field with
Jimmy just after breakfast. In mid P. M.
he killed, unaided & very quickly, a large
nesting of Woodchuck, in oak row near orchard.

Bowcord (Tanager & Ball's Hill)

Mosquitoes out in force.

Ther Thursday, May 25, 1916 Wea
More north-bound migrants. Perfect.
Warbler with Field Wren.

Brilliantly clear with fresh W. wind.
Apple blossoms showering down, whitening
ground beneath trees. Scarcely any of these
remain in full bloom. Mosquitoes began
to trouble yesterday & were bad to-day.

First noted: Wood Pewee 1 @ in tree over
road near house. Nighthawk 1 perching in
oak over Harris' pasture at 5 P.M.

A Tennessee & a Black-bell Warbler
singing in apple orchard 8 a.m. Tennessee
had throat song unlike that of our own before.
His other north-bound migrants noted.
Glorious bursts of music from many
local birds at noon & on & more or less
through day. Scarcely a bird out of bush
y came into glowing sunlight overhanging
out of shade and often lower.

Spent most of day out of doors near
house planting flower beds etc. Short
walk with Jimmy after breakfast. Drove
over to Holbrook & Ball's Hill 3-5:30 P.M.
Coburn's fallow deer. Red eye & Ocean bird singing
loudly. Mockers still under apple. 2
Belted, 1 Red wing

Concord (Tanager /). Scarcely a bird
"Jimmy" returned to Concord. Carrying fly to nest
in bright sunlight.
Ther Friday, May 26, 1916 Wea
Belated rush of north-bound migrants. Perfect.
Tennessee Bay Breasted Warbler, Abert's Flycatcher

Clear & cool with fresh wind to N.W. wind.

First. Vireos (garden) & better cups

First noted: Alder Flycatcher, Caking lips in
Berry Pas. 3 P.M. Swain 8:30 bird down road 6-9 A.M.

Rather heavy flight, N.-bound migrants, of species
noted before this. At least 4, & I think as many as 6,
Tennessee Warblers in full song. Heard 2 before.
Losing my best from 2 to 4 miles in sun later in
morning. D. after reports 2 song near last house.
Many Bay Breasted also. Heard one close to house in
early morn. Another near head of my lake. Saw
4 (3♂♂ 1♀) together in pines near Rabbit Rock, south
line of them 2♂♂ song exactly like Redstarts. One
of them was used also the normal song at
intervals. I found him after both.
Also in sun notes at least 4 D. near house
2 Parula, 2 Cowbird in Hawthorn. Several
Redstarts, 2 or 3 Red-wings, 4 or 5
many loud throat - Thrush.

At 9:30 A.M. Burbank & I saw a Red
Scrub Oriole flying past house into apple grove
carrying in its bill a flock-colored, hairless
fruit-eater's egg. It had looked after a
young Robin. Passing us again in 20 ft. in
flying sunlight. The bird headed straight
for an abandoned Robin's hole in an oak
& entered it like a flash of light. I after walk
saw her head at the entrance. There must
be young in the den. The gray Oriole could
not be found in the grove then, but at
7 P.M. was looking out at hole in
western cedar.
Nighthawk flying high N.E. perching, 7 P.M.
Tide Whippoorwill hanging at once, far
and near towards N.W., 8 P.M.

Spent most of day in garden & orchard.
Dexter & the Blackbird came at 11 A.M.
Had my last walk with Jimmy (to Bush #1)
just after breakfast. Belated look from the
Concord for a better later.

Concord (Farm)

Ther Saturday, May 27, 1916 Wea
Spraying after this began. Mixed

Morning cloudless, windless, divinely beautiful. Clouds overspread sky before noon & a fresh S. E. wind arose. Light rain falling at evening.

Lilacs in fullest bloom. Only a few apple blossoms left. Linnaea in bloom.

First noted: Black-bellied Cuckoo, Yellow-bellied do., one each, both heard in Navy Pasture.

A liberal aftermath of yesterday's flight of warblers. Local migrants lingered through the day in orchard & shade trees close about our house, where I noted 2 Tennessee Warblers (♂♂) 2 House Warblers (♂♂) 2 Blackpolls, 1 ♂ Magnolia, 2 Chickadees & 2 Maryland Yellowthroats. Unfortunately the woods could not be visited because I had to supervise the important task of spraying the orchard trees at which Dr. D. & his men worked until 5 P.M. & began all day. But I did go to the edge of the woods several times without hearing any thing of interest there. A cable message from the Jeffersons: "Hamilton gave to the 7-foot Maryland Yellowthroat to C."

Concord (Farm & Bigelow Road)

Ther Sunday, May 28, 1916 Wea
Blackbirds' nest raided by Weasels? / Dull.

Dark cloudy, misty, cool, with light S. wind. Many oaks in nearly full leaf. Deciduous trees generally well draped in fresh green foliage.

No fresh arrivals. North-bound migrants apparently all gone by.

Local birds abundant especially along old Bigelow Road which I traversed this forenoon from Whetstone Pond to mouth of Big "Bear" Oak. Stopped in thapple Horn pasture & collected a lot of galls for H. W. H. from Swamp Oak. At pond found at least 12 Barn Swallows flying in & out Bigelow barn. Heard her here in full song on N. E. slope Punkabutt Hill. Flashed a ♀ Nuthatch W. from grass-meadow nest in fence of grassy bordering road in beauty scrub. 3 fresh looking eggs. 2 ♂♂ singing near.

2 Canada Warblers & further on at Big Bear Oak del. another Hermit, fine singer. Home by 11. Lots of birds singing all day near house. After tea after this. Hearing G. in late P. M. Found food, with shells of 5 eggs of Bluebird down to getting on ground under box front of house. Full plumed. Most all long up with recent scoldings of very fresh, sharp claws. Sanford Weasels seen by C. H. H. in yard near back of house. North Blackbirds seen about 10:30 P. M. at 7 P. M. seen both sexes above 6 cutting pine cones, ♀ flying over bird nest.

Concord - Boston - Cambridge

Ther Monday, May 29, 1916 Wea
Canadian & Bill. Ther. from W. in Fine
Concord.

Early morning cloudy & foggy. Remainder
of day clear, windless, warm.

Schubert motored me to Concord where
I took 8.01 a.m. train, he keeping on
to Cambridge & then taking C. in
to see Dr. Cheaney. Met George Hayes in
smoking car & had good talk with him.
On reaching Boston went first to Park-
Pollards where I bought a Playwright
Rock rooster, a tree of coral Melbreds,
a pair of white Gambusia Pigeons & a
pair of white Hens. Then to some
office where I saw Arthur Foxcroft.
Then since last Dec. & lunch with
him at George's. Schubert came at 11.15
by appointment. Said things had gone badly
for him at telephone but he could not
get Hakey to say whether he should remain
there or not. I promised to write Hakey
& did so later dictating letter in above
office. Called at Stancett & bought seven
m. records. Then to Cambridge by 4.45 train
but at North. Home by 6.40 and G. &
E. R. D. at home. Dictated correct copy
desires. Robins & Starling. Picking &
Cambridge. Positive singing in garden.
D. Virens singing & Kingbird calling in
Hudson place.

Cambridge

Ther Tuesday, May 30, 1916 Wea
Dull

Cloudy & cool with occasional light
showers.

In Garden 4 Robins (1½) 1 Red-eye, 1
Black Throated Green Warbler, Canada Wren,
& Chiffy, 4 Crow Blackbirds, Saw Horns
Sparrows.

Pink & white Hawthorn in full bloom.
blooms, have chestnut a little past it,
vires just coming to it.

Spent most of day in Museum
writing letters & cheques. In late
P.M. called on Ann Spelmann & saw
three flower garden - very attractive
just now. They gave me plants of
several kinds & returned with me
to our garden where I gave them
violets etc.

Miss Allyn Casson to supper. He
had a Victoria concert after it & I
saw his home at 9.30.

At 6 P.M. visited Tom Hoadfield's grounds
& saw flowers through them by back gate.
Her flowers are only beautiful.

Robins
D. Virens
Chiffy
Black Throated Green Warbler
Canada Wren
Crow Blackbirds
Horns Sparrows
Pink & white Hawthorn
chestnut
violets
P.M.
Ann Spelmann
three flower garden
just now
They gave me plants of
several kinds
& returned with me
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where I gave them
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Miss Allyn Casson
to supper
He had a Victoria concert
after it & I saw his home
at 9.30.
At 6 P.M. visited Tom Hoadfield's grounds
& saw flowers through them
by back gate.
Her flowers are only beautiful.

Cambridge - Concord.

Ther Wednesday, May 31, 1916 Wea
Fine

Rain all last night. Early morn cloudy.
Remainder of day sunny with strong, cool N. wind.

In Garden: Canada's Warbler & Flicker*,
2 Crows & 1 Jay; 2 Red-eyed Vireos*

Gilbert & I left Cambridge at 8.50 a.m.
& travelled to Concord via Franklin's point
Fresh Pond, then by Hills Crossing to
Arlington, then through Lexington &
Bedford. Very few birds. Saw no Robins
anywhere down in Bedford village. A
Mourning Dove came from the road near
Coolidge Bridge & flew over along it just
above of our car.

Reached Farm at 10. Found the men
spraying & found them for remainder
of day. They worked with hand pump &
sprayed apple trees mostly. Duran came
with his new power engine at 3 P.M.
& worked on house spraying a lot
of bushes along the fence. Local birds
singing well. No north-bound migrants.

Concord (Farm)

Heavily sprayed to day
Ther Thursday, June 1, 1916 Wea
More north-bound migrants Glorious.

Brilliantly clear & just comfortably cool
with fresh, dry N.W. to W. wind.

North-bound migrants Black-poll Warbler ♂ & ♀,
Bay-Breast, ♂ & ♀, both in big oaks near barn.
In these oaks were also singing a Yellow-
throated Vireo, a Red. eye, a Redstart & a
Wood Pewee. Elsewhere about the Farm
I heard the usual summer birds
including a Yellow Warbler, at least 3
Chickadee-like, 2 Song Sparrows, 2 House Wrens,
Indigo bird, Grosbeak etc. Failed to
note either Tanager or Oriole.

Duran brought two spraying outfits this
morning and we had from now on very
work them all day working mostly
among the big oaks & elms in & about
the cultivated lands but getting into
the Rose & Paphia Park woods in P.M.
Especially common swarming in spots but
not generally or widely distributed & still
very small. Have seen no Forest Tent
Caterpillars as yet. Out all day with men
& very tired to night.

Concord (Farm)
Harris ^{13 birds - have watched since here}
Ther ^{Barbours in bloom.} Friday, June 2, 1916 Wea
Perfect.

Cloudless & almost windless save in P.M. when a light S.E. to S.W. breeze blew fitfully. Deliciously warm. Barbours in full bloom, their golden blossoms attracting myriads of dancing Bees.

North-bound migrants. 2 Black-poll Waxwings singing, one near home, the other in Pulpit Rock woods. Harris Thrush in full song in ridge just south of the Road at 10 A.M. & again at 7 P.M.

Seems birds in goodly numbers & full song all day. Of those settled near our house I miss only one, the Thrasher, since springing began. The Junco, too, is apparently gone from the tall sals at foot of lane. The Crows & Jays seem to have cleared their morning routes through orchard trees near home.

Spent most of forenoon in Pulpit Rock woods where Zeph was cutting small deciduous trees, sawy the pines. Went there again in P.M. with Barbours & Harry Strickley along paths.

Concord (Farm)
Ther Saturday, June 3, 1916 Wea
Mixed.

Early morning sunny & calm. Remainder of day cloudy with fresh S.W. wind that brought heavy rain at evening.

Bees fast making maximum of bloom and already making brilliant show. Ladies' Slippers about at their best and very abundant in our woods. In one place, under young pines they form a solid bed, growing as thickly as lilies of the valley and thus covering fully 200 square feet of ground. Never before have I seen them thus massed.

No north-bound migrants noted local birds not much in evidence save in early morning when they sang well as long as the sunshine lasted.

Took Zeph & the Maudsley men (3) into woods south of run this morning & spent day with them there digging out stones, carting them & carting to fill hollows & otherwise smoothing the rougher places along the road road leading from Pulpit Rock place to the Barrett Spring.

Concord (Farm) & Bellview.

Ther

Sunday, June 4, 1916

Wea
Squall.

It rained heavily through last night but the sun was out by 9 A.M. & the remainder of the day brilliantly clear with light, cool N. W. wind. Despite these conditions the birds did not sing freely as else there was comparatively few about our place - I am not sure which. I was out in or near the bordering woods just after breakfast & dinner & again in evening when I heard a Hermit & a Whippoorwill go on off to the W. & a Wren in our rear. Robins singing far & near late into twilight.

Spent most of forenoon working letters. Miss May & Miss Hallie Eaton came to dinner. After it we strolled about the place & about to Pulpit Rock. They departed at 3.15. At 3.45 I started for Bellview to see Daddy Peterson's place. He showed me lots of interesting captive birds, Phalaropes of several kinds, Mockers, Horned Larks & a pair of Lys. (Lutes Black Duck) that found his way here a year ago.

Concord (Farm)

Ther

Monday, June 5, 1916

Wea
Various

Forenoon partly sunny, mostly cloudy, with strong S. W. wind, which freshened to a gale at 2.30 P.M. after which came a light thunder shower followed by a gentle rain continuing on into the night. Vegetation of all kinds flourishing wonderfully under combined influence of superabundant moisture & not infrequent warm sunshines. A real old-fashioned Spring, much to be enjoyed & far more attractive in every way than the rainless ones of the prolonged series happily ended last year.

First noted: Mourning Warbler unseen but when full song I heard three at 7.30 A.M., coming apparently from the depths of the Forsythia bushes in front of our house. No other notes. Good migrants noted. Heard again not far from house a Savager & a Yellow-throated Vireo but the Redstart & Wood Pewee seem to have finally departed. 2 Indigo Buntings singing in orchard, 2 Mockers & a Towhee in Back Field.

Sparrows in Pulpit Rock woods all A.M., working in house most of P.M.

Concord (Farm)

Ther

Tuesday, June 6, 1916

Wea
Mixed.

Again a sunny morning with gathering clouds before noon & heavy thunder shower in mid P.M. Calm all day & warm.

No north-bound migrants under a night hawk was over. I saw & heard him at evening, now & then at great heights over Birch Field, occasionally pitching straight down on the wing as if to boom but making no sound the while. Robin's & Cat birds everywhere about the place. At least 8 pairs of juncos & 6 or 7 of catbirds (saw at least 6 birds in Perry Pasture).

Hermit singing in Birch Field and a Wren do at Kitchin place (birds bred at Farm). In a Chaffin's nest in cedar in lawn found a single egg with a small hole, pushed in one side but contents not removed. This, I fear, is our Wren's work & our hatching out W. end of barn 7 P.M. Two Colaptes batesi in glass jar ate 30 Eighty Carven in 15 minutes yesterday.

Spangling along S. side of Run all a.m. Just at noon. Strutting through Perry Pasture Purple R. wood & Birch Field S. of P.M.

Concord (Farm)

Ther

Wednesday, June 7, 1916

Wea
Dull.

Cloudy for most part with light, cool, easterly wind. Distant thunder at noon.

Local birds in normal numbers singing freely all day long. Two ♂ Wrens, one female of ~~hermit~~ ~~at~~ ~~Burgolans~~. Indigo bird flocking air with his delightful chanting all day long over lawn. Hermit Thrush, ~~over~~ ~~five~~ ~~chase~~ ~~birds~~, singing all day in Birch Field. A Towhee, Thrasher, Nashville Warbler & Indigo bird in same locality. In Purple Rock woods 2 ♂♂ Black-burnians, du D. virens, 1 ♂ Pine Warbler, Wood Pewee & Towhee on borders of these woods & Birch Field. ~~Wren~~ ~~about~~ ~~car~~ ~~large~~ ~~of~~ ~~our~~ ~~house~~ ~~heard~~ ~~Chickadee~~ ~~bird~~ & Yellow Warbler, Maryland Yellow Throat, Song Sparrow, Black-bell Cuckoo, Redstart etc.

Spent most of day in Birch Field & Purple Rock woods with Zeph & George. We cut brush in farmhouse & sprayed this & flanking brush in afternoon, using our small hand pump. At 6 P.M. started to Concord to see Dr. Chesney. He thinks C's ~~upside~~ ~~will~~ ~~probably~~ ~~not~~ ~~delicious~~ ~~fruit~~ ~~at~~ ~~least~~ ~~for~~ ~~several~~ ~~years~~.

Concord (Farm)

Ther Thursday, June 8, 1916 Wea
Gypping much conditions Stormy

Dark cloudy with frequent showers of fine rain. Strong brisk N.E. wind blowing half a gale in mid P.M.

Birds silent for most part soon in early morning & later P.M. when a few species sang rather freely.

♂ & ♀ Hummingbirds at columbine front of house almost none, & finally perched in Forsythia bush when ♂ succeeded in chasing the other away many times in quick succession swinging back & forth like a pendulum.

There are almost no Brown Creeper & but few Field Squirrels but Gypping larvae swarmed by myriads throughout our farm woods when the springing has been done. In places as Birch Field & along the River they are quite as bad as ever before. Berry Pasture only lightly infested. Row of big oaks near back orchard etc. Heavy infestation which has departed by springing.

Despite rain spent much of day out doors working flower beds & helping George cut lawn.

Concord - Boston - Cambridge

Ther Friday, June 9, 1916 Wea
48° min Stormy

Dark cloudy with strong, cold N.E. wind and incessant fine, misty rain. Everything dripping with moisture and thoroughly water soaked.

Gilbert & I returned to Cambridge to day, he by motor after taking me to Concord when I journeyed to Boston by the 8.01 morning train. Spent most of forenoon in our office dealing with letters or noon in Young Hotel. After this visited several stores to purchase wire fencing, hardware etc. for use on the farm. Out to Cambridge via subway by 3.11. Gilbert met me at Museum Comp. Zoology to attend meeting of Committee on Zoology. 3.30 P.M. Present: Cassin Forbes (Chairman), Alexander Forbes, Dr. Warren, Randolph Agassiz, Dr. Moseley, Dr. Paulsen. Rousing discussion until 5 P.M. when I left the others there as it was rather warm.

C. & E. R. S. at home. We spent evening in hall looking at beetle's museum. Robin singing & Kingbird calling near home.

Cambridge.

Ther

Saturday, June 10, 1916

Wear
Stormy

North-easter raging with increased violence under darkly lowering sky. Rain unceasing at times so heavy that broad pools of surface water filled hollows in our garden paths. The thermometer stood about 50° all day. All over rooms very chilly saw where open fires were alight & fed with abundant fuel.

In Garden: An Oriole, a Jay and at least 3 rock robins, the last-named all singing at once & near together in late P.M. Their voices uniting in a delightful chorus such as has rarely been heard here in recent years.

Spent entire day in home & Museum, writing letters etc. Usual victrola concert in hall this evening. Garden rises on this eve & revealing a beautiful stand.

Cambridge.

Ther

Sunday, June 11, 1916

Wear
Stormy

Dark cloudy with light N.E. wind and intermittent rain heavy at times. Altogether a very dreary & also chilly day.

In Garden: Robin 2 ♂♂, several bob-tailed young on wing; Red-eye ♂; Goldfinch coting; Chaffin ♂ (just across Beattie St. in Hubbard Park); Flicker, 1 in apple tree; Blue Jay, heard; Swift, hd. at eve.; House Sparrow, sev.

Spent most of day in home and Museum, reading & writing. Called on Mr. Spohns in late P.M. Their iris meeting a superb show. Miss Adey, drink with us. We had victrola music for her and more for C. & E. in the evening, besides looking about.

Cambridge, Conn.

Ad. Sand Owl with three young dead.

Ther Monday, June 12, 1916 Wea
Gray Squirrels & Robins nest Mycel.

Forenoon sunny, calm, humid & sultry.
Afternoon dark cloudy & foggy with a
succession of heavy showers & distant thunder.

Leaving home at 7.45 Gilbert & I returned
to Concord via Arlington, Lexington &
Bedford, reaching Fair at 9.15. Roads
deep in mud, brooks & river meadows under
water. Saw hardly any birds - not a single
Robin the whole way.

Walked outside after dinner among my
flowers until the rain drove me in.

No one here but Bartlett & George. Vegetation
suffering from excessive rain & cloudiness.

Birds singing well - including a Grosbeak &
a Northern Oriole. Gray Sand Owl appeared
at evening fasting from tree to tree behind barn.
He had in his bill with him a small mouse, its tail showing
with a nest of Plumbeous Robins breeding after. A
Gilbert found a red young Scops freshly dead
under eaves that was gone. He examined
marks of injury & bird in good condition.
Blackbirds reports seeing a Gray Squirrel raid a
Robin's nest under Bungalow just long but
Saturday. He found there but see two eggs & two.
Eggs not being of nest. Several other Robins
nests were found similarly despoiled of laid.

Concord (Fair)

Ther Tuesday, June 13, 1916 Wea
Mycel

Forenoon sunny & sultry with light E. wind.
Brief showers with distant thunder 1-2 P.M.
After that sunnier again. Evening calm & clear.

Birds singing well all day. They have
fallen off in numbers considerably of late,
both as individuals & species. Very few have
nesting young as yet. I heard a brood of Chipping,
heard in view of Bungalows first, and later
all I have noted. At least 2 pairs of Robins
are feeding young in the nest, however. They
are having an unpleasant time with the Crows &
Squirrels & clatter loudly whenever either appear
near. Most of their nests have been plundered by
something. Of our Tree Swallows only one pair,
nesting on lower apple tree near well house, on left.
The Barn Swallow nest in Bungalow barn
has 5 eggs but is deserted. I found many
wing & tail feathers of our parent birds & there
were several from of open shed, yesterday.
It looked like a cat's paw but perhaps was a
Scrub Owl.

Spent day rambling about place & woods.
Gibson could not come to help.

Concord (Farm)

Ther Wednesday, June 14, 1916 Wea
Fair

Mostly sunny but partly cloudy with light
E. to S.E. wind. becoming N.E. with dense
clouds after sunset. First rainless day
in the 8th. Warm at noon, cool at
noon & eve.

Birds singing freely at all hours.
Wood Pewee, 2 Black-burnian & 2 D. virens
in Purple Rock woods; 2 E. Wrens, Grackles,
Chipping, Indigo birds, Chestnut sided warblers,
2 Cat birds, & a Grosbeak (had one on wire)
singing close about house. Robins in
full chorus at evening. No alarm
among them to-day as the Quail have
probably departed. Jays still raiding
for eggs in one orchard & Blue Jay Robin
but only in early morning. Saw 5-6 together
on wing in Bird Field, 3 P.M.

Duck came again this morning &
was spayed all day, he & George doing the
big work at spring, I working with him
& using the hose freely on larger trees
throughout forenoon. In P.M. Zeph & I used
the hand pump on shrubbery in Bird Field.
Millions of eggs. Then on bushes etc.

Concord (Farm, Holden's Hill, Ball's Hill)

Ther Thursday, June 15, 1916 Wea
Dull

Mostly cloudy with strong, chill N.E. wind.
A few brief intervals of sunshine in forenoon.

Zeph & I spent forenoon on Holden's
Hill & Blackmore Ridge cutting 2 fine
cane braches for their back & a chestnut
from which to make back bird houses.
All these trees peeled admirably & one
of the braches so readily that the back
almost dropped off as soon as split.
At Holden's Hill only three birds were
singing in the woods, a Red-eye, a
Black-th. Green Heron & an Oven bird
but I heard a Bobwhite in Harris meadow
& 3 Maryland Yellow throats along its edge.
Their hummings deeply fanned with
white. Cops rolling over them & not a word
of any kind singing them. One Black-burnian
Ridge at least 20 Crows, nothing something.
Grosbeak, Red. g. & Oven bird had on B.H.
Pine Park glorified by warblers & others
lupins in full bloom & many other woodland
with oak tree trunks. Home by noon.
Worked fence beds & made back bird houses
with Zeph's help, in P.M.

Concord (Farm)

Ther

Friday, June 16, 1916

Wea
Dull

Cloudy & foggy with some fine mist driving before chill N.E. wind and a brisk shower of larger drops in P.M. Saw out ones or twos for a few minutes.

The singing of many if not most of our local birds has apparently passed its full-tide phase & is sensibly abating although a few species such as the Robin, the Red-eye & the Indigo bird are notable exceptions to this rule. The Cat birds, also, continue to sing freely. Little signs at last among the Robins & since the Screech Owls have departed but I know of only two occupied nests one in a dense foliage of apple tree at least of hawthorn, the other in front of it in the Forsythia thicket, both with young. There is a Cowbird's nest with eggs in the sunbony bushes under one back window.

Spent most of day working & transporting among my flowers. Going away later now. Walked Mrs. Barry's garden at last. Chestnut side Hill. Saw but only birds singing there.

Concord (Farm)

Ther

Saturday, June 17, 1916

Wea
Stormy

Dark cloudy with incessant heavy rain from day break to sunset, flooding roads & mowing fields and overflowing brooks & other water courses. One of the most violent & continuous downpours of this excessively rainy month. Vegetation flourishing wonderfully where not drowned. Not for many a year have I seen the tree foliage so luxuriant at this season. Even our big elms seem to be recovering much of their lost vigor.

Spraying - such as could be done - uncommonly effective this year. Every where about the farm it has well-nigh exterminated all leaf-eating insects but the Gypsy are bad where no poison has been used. What has become of the Colletes? I have not seen one running about yet.

Mountain Laurel about to bloom - only late but a splendidly ripe as yet.

Birds mostly silent this day. Delightful concert of Vireos in sun at 7.30 P.M. when I had two singing close about me at one near Purple Rock.

Spent more of day working in barn & shed on the Bullbank & Gary. Walked to Birch Field at last. Brook rising as usual.

Concord (Farm)

Ther Sunday, June 18, 1916 Wea
1 in Pheasant with young. Fair

Mostly sunny calm & sultry with a
short but brisk thunder storm in
late P.M.

Strawberries beginning to ripen. I had my
share, them in morning, to night.

Leaving the house at 8.30 A.M. I
traveled through the Barn Pasture hearing
there 2 Chestnut sided Warblers, 2. May Combs
Yellow Orioles, a Song Sparrow, ^{a Field Sparrow} an Cowbird
& a Crow. Also a grey & Purple Finch.

Next to the barn place where a Song Sparrow, a
Chipping, a House Wren & a House Sparrow
were singing & a pair of Catbirds feeding.
Another Field Sparrow across road in Horns for.
Next along border side of the to Spring where
I heard an Ovenbird, a Goldfinch, a
a Black-burnian. Another Black-burnian, a
Pine Warbler & a D. Wren in Puffin R. woods.
Indigo bird, Nuthatch Warbler & Chickadee in
Birch field. Went further through middle
part of day. Called on the Horns at 6 P.M.
Catbird, 2. May Warbler, Oriole & 2 Song
Sparrows singing there. Redstart singing
all day near barn by chimney. Then Pheasant
with five young as by the Blackbirds in Corn Pasture.

Concord (Farm)

Ther Monday, June 19, 1916 Wea
Mixed

Morning brilliantly clear & windless;
clouds gathering & S.W. wind rising thru'
forenoon; incessant heavy rain all afternoon.

With confident expectation of an ideal
day for spraying I set forth with Dremt Gorge
this morning. We began operations near the
Spring and sprayed thorn along the road
leading to Prescott Point & Burrows. By noon
the sky looked clearing & threatening
and shortly after 1 P.M. the rain
began and drove us home, after the
last chaf of his and water had
deluged foliage already too wet to
make it worth while. I spent
most of afternoon in house, reading
& writing.

Somewhat to my surprise a pair of
Tree Swallows were feeding young in nest to day
in box on Barnyard shed. I saw them building
these a month ago but since then have
seen nothing there. Sleated a ♀ Towhee from
a nest in unusual situation - 8 ft above
ground close against upper side of small red
cedar by side of path in Cedar Park. It was
only half finished & built exactly like a
Pheasant & Cowbird nest.

Concord (Farm)

Ther

Tuesday, June 20, 1916

Wear
7 in

Clear & cool with violent N.W. wind.
The first really fine day for 3 weeks now
this spring.

Only a few half-grown strawberries as yet. Mountain Laurel just beginning to bloom. Locust blossoms well out. All flowers unusually late this far. I was passing. No roses yet.

Spent entire day working in flower gardens with Burbank & George. We pulled or dug up countless weeds of various kinds and saved a miscellaneous lot of seeds (some 8 or 10 years old) broadcast in vacant spots. The old garden behind house has been utterly neglected until now but nevertheless is radiant with brilliant peonies & other flowers.

Birds mostly silenced by high wind but Goldfinch, Indigo bird, Oriole & others sang freely near house. Walked to Birch Field 8.30. & P.M. Toward evening. Robins calling in trees & down by spring & blue jays. 2 Robins near spring.

Concord (Farmy Ball's Hill) - Cambridge

2nd 2.5 in. in the flower garden, Cambridge.

Ther

Wednesday, June 21, 1916

Wear

Final spraying of woodlands. Fine

Brilliantly clear with light westerly wind up to 4 P.M. when a few clouds gathered bringing brisk showers (5-9 P.M.)

Dusen came for the last time this morning and with George to help us find in a systematic & very efficient forerunner's work, the most satisfactory by far of any that has been undertaken this season. We began in Birch Field, where millions of sucking larvae were thrashing a strip away from the road. We took the road path leading toward Burgess, where they were comparatively scarce; thence to Pine Ridge where they were bad only in spots; finally reaching the back side of Ball's Hill shortly before noon & finding only a few there. On the lower side there were fewer still so we decided to spray only Burgess Thicket & thence to Pine Ridge shed. Leaving Dusen & George to perform this task I returned to the Farm at noon. After dinner Burbank & I sprayed with our hand pump, the shrubbery along N. side of Court & then with the hose close behind our flower. At 3.45 P.M. Selous & I started for Cambridge, leaving there at 4.50 when I went to a private dinner & had my hair cut. After Stone closed with C. & E. D. S. I was at 7 & stayed until 9. Some after that I went to bed. Mrs. Stone sent a big box in the flowers little garden yesterday. It was very nice - 50 boxes. The boxes were up the hill.

Cambridge

Ther

Thursday, June 22, 1916

Wear

Young Robin entangled in leaves & thorns

Brilliantly clear with strong cool, breezy

N.W. wind

In Garden: 2 Robins singing, several spotted young, one found dead on ground under drooping branch of linden to which it had inadvertently lashed itself irretrievably by getting a filament hair & several leaves entangled in & around the primary quills of one wing.

I shall send it to Fraser to dissect & examine. Only one other bird heard singing an Oriole in the jungle. He had an unusually varied song and a rare flute-like quality of voice sounding like that of the British Blackbird. I listened to him twice before feeling sure that he was an Oriole. I saw a new Crow I had to do, mostly chattering long, some raising the yellowish hoarse all day. Heard Sprots at evening.

Spent most of day in house & garden, making & writing & packing for trip to Hafford & Bethel. Because of a neuralgia attack sent for Dr. J. Smith in P.M. He could discover nothing very much the matter with me but told me the coming

Cambridge - Wolfboro

Annual Meeting Academy Trustees

Ther

Friday, June 23, 1916

Wear

Red-headed Woodpecker

Time

Clear with strong cool N.W. wind.

Leaving Boston at 8.50 A.M. & traveling thru by way of Dover & Rochester I reached Wolfboro at 1 P.M. & went at once to Mr. Haley's house. After a good luncheon he & I walked over heading grounds where we saw a handsome Red-headed Woodpecker among the elms shading roadway to our ball ground. He flew on ahead from trunk to trunk & when turning each circled low over us on set wings. Started a Meadow Lark & heard a Governor Sp. in our grass field. No Robins there. Comparatively few birds along village street, noted there a Warbling Vireo, Great Flycatcher, 2 Wood Pewees, several Chipping Robins etc. Many Sprots at evening & usual colony of Martins at bird houses on barn S. of our grounds. No Saw Swallows about Academy but their old nests intact & tenanted by House Sparrows. Observed them removed.

Justice meeting began at 2.30 others hardly gathered from trip over Lake Umbagog, Acworth, Grafton, Hallow, & about 50 to enjoy perfect dinner cooked & served by our friends in Brown Dorchester. Gradually increased 8-10 P.M. very good. Concluded Justice meeting at 8.15-12 P.M. Mostly routine business & no "clashes".

Wolfeboro - Bethel

Ther Saturday, June 24, 1916 Wea

Clear with light southerly wind until late P. M. when clouds began gathering. Cool.

Left Wolfeboro at 8.10 a. m. and journeyed to Bethel via Dover & Portland. At South Paris Dr. & Mrs. Gehring pointed me quite by chance, coming from Norway where they had spent day fishing for Bass. On reaching their home the Doctor & I spent an hour or more strolling about the grounds looking at his flowers. Soon after dinner we went down into Shaker woods. Reached in time to hear the evening birds concert at its best. Many birds look fresh in it than I have ever heard them before. The still air rang with their varied notes. There were at least 5 or 6 Vireos, 2 or 3 Herons, 1 Swallowtail (Thersites), a building member of Chestnut-sided & Canadian Warblers & Peewee birds, 2 Redstarts, several Dove birds & juncos, a Cuckoo, Catbirds, & a Night Hawk forming a Kestrelhawk, Robin, Chipping, Black Flycatcher, many Warblers & Kinglets etc. Heard no other Flycatchers.

Spent most of evening in the lounge talking with the patients (a wholly new lot about eight in number) and later with the good Doctor - until almost midnight.

Bethel vegetation as elsewhere, wonderfully abundant especially foliage of trees & shrubs.

Bethel.

13 Ther Sunday, June 25, 1916 Wea
Stormy

Forenoon dark cloudy & densely misty. Heavy rain all afternoon & evening. Cool. In early morning heard Nashville & Chestnut-sided Warblers, Canadian Warblers, Vireos, Robins, Chipping, Least Flycatchers, a House Sparrow, Peewee birds, juncos etc. singing clear about the house. Walking down valley third year breakfast heard Red-eye & Black-birds (one each) & a House Wren, his driver. A few House Sparrows. The Doctor exposed a Barred Owl & a Long Eared Owl hunting his nests of Eggs. He did not know of any young. Grackles being seen last summer.

Spent most of day & evening talking with him & his patients. He had planned a long woodland walk for two afternoons but the down-pouring rain prevented. Evening in hospital on Mrs. Mills, daughter of Mrs. Bombardier, & Mrs. Mrs. Victor, both acquaintances. There are also or guests a young bride couple, Mr. & Mrs. Marshall, my associates & John Lane whom I have long known & liked.

Bethel - Boston - Concord

Ther

Monday, June 26, 1916

Wea

Clear & warm with light southerly breeze.

Left Bethel at 8.50 a.m. and reached Boston at 3.35 P.M. Mrs. Mac Vickar on the train with me as far as Portland. We sat together part of way & talked & looked out of windows at fields filled with golden Buttercups & white Daisies in unconcealed profusion & full-blown. Orange Harebells all the way to Portland & in some fields ominously wide spread.

On reaching Boston went straight to our office but found it closed. Thence to Cambridge where I spent remainder of afternoon working & rambling about gardens. C. & E. had gone off motoring with Gilbert but they returned at 6.30. We had supper on back piazza. Harry Bartlett came shortly after it and spent evening.

In Garden 2 Robins & a Red-eye Vireo singing; one of the Robins with rare sweetness & fervor. A Jay uttering readily of liquid notes at times. 2 Scowls careering about overhead.

Cambridge - Boston - Concord

Ther

Tuesday, June 27, 1916

Wea
Fine

Clear & oppressively warm & humid with light southerly wind.

In Garden 2 Robins & a Red-eye singing, 8 Cross Blackbirds on lawn, 2 Jays in jungle. Concord Farm. Red-eye, House Wren & Chestnut sided warbler singing near house, Cuckoo & several Flycatchers calling, a Veery in Sharp Point / & 3 or 4 Robins singing at eve. Cat-birds singing a little. Their nest in shrubbery behind house held young a day. Several Towhees thrashing furiously but briefly. I took them to be young birds.

In Boston at 10.30 a.m. Bought a pair of trapping shoes at Mr. Neil J. Thayer's. Thence to our office where I saw Galloway & Darling & signed quarterly cheques. Dined at Marston's. Thence to Fuller's & Ames Plough Co. for a final look. Took 2.40 train to Concord where Gilbert met & motored me to Farm. Strolled about then until dinner. Abundance of fruit, large ripe strawberries & some Muscadines. Fine loads in tree close to house keeping up incessant calling & singing.

Concord (Farm)

Ther Wednesday, June 28, 1916 Wea
fine

Clear, calm, warm & sultry with
thunder shows passing to N. of us in mid P.M.

Birds singing freely all day. I
miss only a very few of those heard
early in the month but they have had
in success breeding this year & almost
all young except one or two broods of Robins
one of Chipping & one of Orioles seem to
have been reared thus far. On looking
into the Towhees' nest in the little
creek in Cedar Park this forenoon
I found, to my surprise, that it held
nearly hatched young. How this could be
when it was certainly empty & only half
finished on June 19 & held but one
egg on the 21st is beyond me to
understand.

The Towhees calling incessantly in trees
close to house & Green Herons in field across
road after day.

Spent most of day working about the
Farm. Walked to Birch Field at 10 o'clock
by long barrow & along there.

Concord (Farm, Davis Hill, Balls & Holden Hills)

Ther Thursday, June 29, 1916 Wea
Ant Lewis on Davis Hill. fine

Clear and cool with fresh N. W. wind.

Usual birds in usual places about Farm.

In Pulpit Rock woods a Canada Warbler
singing, a Black-burnian & 3 D. Orioles singing.
In Birch Field a Nashville Warbler singing steadily.
2 ♂ Towhees (one singing) together in our dogwood
clim, ♀ on nest with young, ♂ & in Prescotts pines,
♂ & on Balls Hill. 2 Pine Grosbeaks at bird
singing on Davis Hill. Just to north of it, on
prophet granite knob across swamp, a Hermit J.
in full song at 5.30 P.M. Between it and
Hedden's Hill, along edge of river meadow,
still flooded, I heard singing 6 Song Sparrows,
5-6 Song and Yellow-throats, 2 Red-wings.
Between jumping near Birch Hill, another on
S. side Great Meadows. 2 Black-throats
calling loudly.
5 Swifts, 2 Chunks, black-bird measuring worms 3
inches long stirring red maple 2 over Swamp.
Strong coloring Ant Lewis scattered along country
bank by road way river front Davis Hill.
Spent A.M. on Birch Field with Black-burnian
singing with one hand pump. Walked to
Balls Hill via Davis Hill & back via Holden
Hill in P.M. (5-7)

Concord Farm - Cambridge

Ther Friday, June 30, 1916 Wea
Small Buds, flying over lawn. Perfect

Brilliantly clear & delightfully cool with
S.W. wind. 1000 ft. wind.

Birds at Farm: Just the usual ones -
Robins, Chipping Red-eyes, Crows, Cuckoo
& House Flycatchers etc. Wood Pewee
Singing in trees. Fairly party of
House Wrens there. Young Flicker calling
in near trees, answered by another in
nearby trees. Bad Weather hawk flying low.

Birds in our Garden, Cambridge: In late
P.M. 2 Robins singing, adult Oriole
scolding & over a nest of its young
in the "intention" here. - under a cow.
2 Scapels flying overhead at evening.
Several House Sparrows. One or two Jays.

Spent forenoon with Burbank, making
various things in shop, among them a
Cassidy of screws to catch Loping ducks.
Leaving Farm at 2.20 P.M. Got at
motor car to Cambridge reached at 4.30
Home C. alone & having some &
Burger. The rest of the day & night
nothing in evening.

Cambridge - Manchester. By the Sea.

Ther Saturday, July 1, 1916 Wea
Fine

Clear & moderately warm with fresh W. wind.
In our Garden: Robin, 12 + ad & juv. 2 ♂♂ & 1 ♀;
Red eye, ♂ & ♀; Oriole, ♂ ad; Jay, 3; Starling, two
broods young with parents, 11 birds altogether,
feeding on lawn & on ripe cherries; House Sparrows
Manchester - by the Sea & Dana Woods & there;
Pine Warbler ♂ (near house); Song Sparrows ♂ & ♀ garden;
Chaffinch, brood of young; Thrush 1 on wing;
No other upland bird seen or heard between
4 P.M. & sunset (a calm & serene one).
Along shore: A Green Heron on wing, a few
Crows, about 500 Herring Gulls, mostly adults.
Spent forenoon in house & museum talking
over C., writing letters etc. Took 2.20 P.M.
train to Manchester where Dick Dana met
me at station and motored me to his
beautiful summer home. After reaching
there we rambled along the beach and through
the woods until sunset. The winds had
then died to a gentle breeze & the air was
warm, under a cloudless sky. Yet unbroken
silence reigned for the next part. Near 8 p.m.
I knew such loneliness so actively before
at such a season as regards birds. Apparently there
were no more than half a dozen in the whole road
across. The time was thoroughly spent last Wednesday
Rosa and Kites along the Manchester road.

Manchester - By - Sea.

Ther Sunday, July 2, 1916 Wea
Strandest Hail & Hurray Fair

Sunny but hazy with clouds gathering in mid P.M. and thunder showers later, followed by ever rising east wind and increasing roar of surf beating on ledge & beach. Cool.

Dick Dana & his niece motored off to church at 10.20. I sat awhile on beach pensive writing & enjoying the fine sea view.

Harry Dana joined me there about 11.30 & later came Dick's sister Rosamund to him and his daughter Frances, with her small son, still later to sup & spend the night.

In afternoon Dick & I had a delightful walk first down through his woods, where there seems to be almost no bird life at present; next through the Dana's beautiful gardens & Strawberry, where 5 or 6 Song Sparrows & 3 or 4 D. verreaux were singing; finally along the exquisitely smooth & hard black of "Singing Sands" thickly strewn at high water mark for its entire length with dead Halls of fawn & to 5 or 6 lbs. length & even more plentifully with young Herring 2 or 3 inches in length. Most of the larger fish had been picked up & thrown on land eaten by Crows & Gulls. They had presumably chased the little ones ashore at high tide but slight & perished with them by decaying. In a few places the little ones covered square yards of sand with an imbrication of silver scales.

We spent evening in living room talking cheerily of various things

Manchester - Boston - Cambridge.

Ther Monday, July 3, 1916 Wea
Dull

Cloudy warm & humid with a succession of thunder showers in P.M., none, however, of long duration or much violence.

We breakfasted at 8 at Mr. Dana's, Richard, his daughter Frances & his niece Rosamund. Harry came down later. After that we sat in the living room together talking. At 10.27 Dick, Rosamund & I started for Manchester in the Ford, Dick driving at fast & accurately, reaching the Station we joined Rosamund's mother, Rosamund, with whom I journeyed to Boston as with Edith Dana two years ago. From North Station I went to our office where I saw Galloway & learned of Edward Allen's death on Saturday morning. It leaves Arthur & me the sole survivors of the Brewster Scout 180's office force of the early twenties. Lunched in Exchange Building & came out to Cambridge at 2 P.M. finding E. at the house. E. R. E. returned from Bangor at 4 P.M. E. & I played English chess records before that & found him of them country

Cambridge.

Ther

Tuesday, July 4, 1916

Wea

Stormy

Dark cloudy with almost incessant & at times heavy rain. Cool. Little or no wind.

In Garden: Half a dozen or more Robins 3 singing at once in late P.M.; ad. ♂ Dove accompanied by several persistent calling young; Thicket, shouting freely; Crows cawing in distance; Starlings screeching; Swift heard at evening; many House Sparrows old & young.

Spent most of day in Museum writing letters. Vicissola concert in hall this evening lasting about an hour.

Cambridge

Ther

Wednesday, July 5, 1916

Wea

Mixed.

My sixty-fifth birth-day.

Forenoon dark cloudy with some misty rain.
Afternoon sunny calm & serene.

In Garden: Several Robins 2 singing well; ad. ♂ Oriole singing freely, followed by young bird; Thrush on lawn; Swift & Starlings heard; House Sparrows as usual. The Robins object to presence of Starlings in cherry tree. To-day & to-day I have one attack & drive a Starling who resisted steadily about a young bird.

Thanks to Co. thoughtful devotion I have had a delightful & memorable birth-day. She had arranged to have Harry & Amy Spelman at luncheon & Harry & Alice Bostlett at dinner. (6.30). At the latter meal there was a handsome & delicious cake illuminated by red candles intertwined with ferns & other greenery. Our guests were most cordial & all brought little presents of amusing kinds. By telephone Mrs. Sander & Miss Pollock had sent kind congratulations. We had Vicissola music both afternoon & evening. Altogether the day passed very happily for me.

Barnbridge - Boston - Concord.

Ther. Thursday, July 6, 1916 Wea
Fine

Clear & cool with light easterly wind.
Fleecy clouds overspreading sky at eve.

C. & E. R. S. with Percy & Charlotte, took
9.20 a. m. train for Williamstown. I
selected numbers of records to be
ordered for Davis collection & then
went into Boston, reaching our office
about 11 a. m. I sent for John Abbott
& questioned him closely about facts
appertaining to Supreme Court. He claims to
have papers ready & promises to put the
case through within next three months.
Lunched at Marston's & called on
Steinmetz to order records. Took 2.40
train to Concord where Gilbert met
me. We went to Sleepy Hollow where
humbugs & carvers plucked last spring are
looking finely. Thence to Farm where
I stalked about until nearly dark.
Many birds close about house. Robins
call birds, Song & house Sparrows singing
freely. Song Sparrows grow from nest at
Cedar Rock. Singing & calling anxiously
heard by.

Concord Farm,

Ther. Friday, July 7, 1916 Wea
90° max. Fine

Clear & hot with light S. W. wind.
Warmest day of season thus far.

Birds singing freely in early morning
& by no means sparingly through day.
Among others heard at farm house were
a Chaffinches & a Thrush. A Solitary baird
in full song near Pollock's Rock at 2 P. M.
Two Vireos & a Maryland Yellow-throat
in berry patches & two Robins close to
our house united their voices in a
delightful concert at twilight were
falling this evening. Red eye, Tanager &
2 Indigo Birds singing in undergrowth all
day. Both species of Cuckoos heard.
Green cock Pheasants coming at dinner.
Spent much of day working flowers beds.
Dexter came down to dinner. After
a walk to Birch field. Gypsy
Caravan swarming there. They have completely
flipped many bushes & are now at work
on white & pink ferns. Looked for
Calamagrostis but saw only two.

Concord (Farm)

Ther

Saturday, July 8, 1916

Wea
Mixed.

Forenoon sunny, intensely hot & humid with light westerly breeze. Afternoon cloudy for most part with succession of thunder showers, lasting into night.

Usual birds singing in accustomed places about Farm. Grosbeak song heard in full voice, in the Elm, 10 a.m. At least 4 pairs of Catbirds, two behind house, one near poultry yard, one near brick shed. Very many noisy Robins, probably not less than 8 pairs, two with nests in locust tree close by house, the others scattered about, some near Cow Pasture, several in Berry Pasture. Males singing well.

Spent most of forenoon supervising erection of wire fence for poultry yard in hickory grove. In afternoon Gilbert & I with Bluebank, picked hundreds of Gypsy larvae from Rosebush bushes along lane which have been well nigh stripped by these pests. I did not discover their presence until yesterday.

Concord - Cambridge

Ther

Sunday, July 9, 1916

Wea
Mixed

Forenoon cloudy with several brief thunder showers. Afternoon sunny & calm. Cool all day.

Birds singing freely about Farm 7-9 a.m. Included several Robins, 2 Flickers, an Indigo bird, two Song Sparrows. A Phoebe sang fitfully & a Grosbeak faintly & brokenly.

In Cambridge Garden a Flicker "chattered" many times about noon and three Robins sang long and vigorously towards sunset. Besides these I noted only a swift heard in winging & numerous House Sparrows.

Leaving Farm at 9.30 a.m. Gilbert & I motored to Cambridge via Bedford, Lexington & Forest Road, reaching Museum at 10.40. Dined at the Spelman's at 1.30. Gilbert packed my things 3.30-6. After that walked up Brattle St. & making Sally Fairchild dance back with her & called on her mother.

Sunny - with varying showers. Supply about.

Cambridge - Glendale

Ther Monday, July 10, 1916 Wea
Mixed

Partly cloudy but mostly sunny.
Light rain in early morning. Warm.

Left our house at 9 a.m. to take 10.05
B. & A. train at Trinity Forest for Glendale.
Had to wait about an hour at Petaluma
for south-bound train leaving at 3.35.
Dan met me at Glendale station with
his new "Dodge" car & Margaret joined
us in the village, while Mrs. French returned
from playing golf at Stockbridge soon after
we reached the house. She & Margaret seem
well but have not been so & for this
season are keeping much out of doors &
will have fewer guests than usual this summer.

Dan & I strolled to the pasture look out
at 5 P.M. & spent an hour or more there.
2 Hermits & 1 Wood Thrush singing gloriously,
one of the former on the old station on ridge,
the other in woods behind studio.

Warblers mostly silent but a D. virens &
D. black-throated sang freely & full-throatedly.

Spent evening in parlor talking.

♂ ad. Broad-billed Hawk catching over bush
through Hawthorn in garden yard.

Glendale

14 Ther Tuesday, July 11, 1916 Wea
Fine

Clear, warm, humid. Light S.W. wind.

Birds singing freely through most of day.
Nearly all the accustomed species present close
about house - including Robin, House Finch,
Black-thr. Green Warbler, Downy Woodpecker, Red-eye V., Solitary,
Yellow-throated, Wood Pewee, Crested Flyc., Phoebe,
Cedar bird, Purple Finch, Chipping, Field Sparrows, etc.
Robins as numerous as usual but actually
silent. No Song Sparrows heard. Dan has seen
only one Bobolink & that at Stockbridge.

Spent most of day in room writing
letters & putting my things in order.
In late P.M. strolled about the place with
Dan visiting hill-side studio where
Mrs. Cullen is making an enlargement of
the new Lincoln (seated figure to be
placed in Potomac Park, Washington).

Dan is working more out of doors than
common, pruning shrubs etc. His foreman,
James Kelly, left him alone a week ago.

We spent evening together in parlor.

Glendale

Ther Wednesday, July 12, 1916 Wea
88° May Fair

Oppressively warm & humid with light southerly breezes & distant muttering of thunder. Evening serene & beautiful with refreshing breeze and myriad fire flies flickering over fields of sweet grass.

Birds singing freely & delightfully, especially at noon & eve. Nowhere else in localities known to me can so many of such varied kinds and sweet voices be heard so close about a large & well appointed country house. Here we hear only near at hand not only those given to frequenting cultivated grounds but also practically all the characteristic woodland species as well. It is especially gratified to hear the Road Thrush, Hermit Thrush, Solitary Oriole & several species of forest dwelling Warblers as I lie waiting in my chamber or going awake in bed. A pair of Red-throated Loons were heard today singing wildly over the house this morning & at evening there was a Rhyacionia Spectra heard of day in voice and wing. Little Doe & I called on Macintosh in late P.M. Evening passed as usual in quiet.

Glendale

Ther Thursday, July 13, 1916 Wea
Cat Bird Serenading Rabbit Foul

Forenoon cloudy, calm, oppressively sultry. Heavy thunder shower at noon followed by succession of others more or less violent & protracted continuing through afternoon.

Usual local birds, in accustomed places, singing more or less freely when the rain held up & sometimes during its continuance.

A young (young?) Rabbit, scarce half grown, is haunting the grounds close about the house, appearing fearlessly on the lawn at early morning & late afternoon (usually well after sundown). Last evening he came within a few feet of the storm slip at north door & while there was encircled twice, within a foot or two, by a ♂ Cat bird who, while hopping about him on the ground, sang ceaselessly in subdued tones - altogether a very pretty & interesting thing to witness & listen to. The Cat bird did not seem to alarm himself or even wish to do so but I twice saw a Robin fly straight at him as if with such intent yet without disturbing his serenading. Spent forenoon waiting in my room & playing in the two records just recd. from Boston. Doe & I motored down valley at noon to lunch with Mr. Bridge back to 2.15. More beautiful music - young spent in field.

Glendale.

Ther

Friday, July 14, 1916

Wear
Fine

Clear & cooler with light W. wind.
Typical midsummer day, neither too warm nor
too cool for perfect human comfort.

Birds singing with exceptional freedom &
brilliance all day long. I enjoyed their delightful
music keenly especially towards evening when,
from woods behind studio, came almost
incessantly the songs of two Hermit Thrushes, a
Wood Thrush & a Wood Pewee, besides those of
a Red-eyed & a Solitary Vireo with very now
& then that of an Oven-bird. The Wood Thrush
is an exceptionally good singer and one
of the Hermits has a truly divine voice.

Spent most of day in chamber reading
writing & sleeping. Of the last I cannot seem
to get enough just now.

It was Mrs. French's weekly "at home"
afternoon & a dozen or more people
came to chat & have tea. Lamentably few in
the garden by the fountain. Among those were
Mr. & Mrs. Joseph Choate & Mr. Coconino Smith,
with all of whom, besides others, I had
pleasant talk.

Glendale

Ther

Saturday, July 15, 1916

Wear
Fine

Sunny but densely hazy. Comfortably cool
with fresh westerly wind.

Birds generally silent through day, probably
because of high wind. When it died away at
sunset they sang freely and the woods at rear
of studio rang with the clear voices of Wood &
Hermit Thrushes while the plaintive, exquisitely-
modulated notes of the Wood Pewee continued to
come thence until night closed in. Early in
afternoon a Warbling Vireo sang there in the
poplars by the studio to which, no doubt,
he had merely strayed from Glendale village
where one or two pairs of his kind breed
regularly every summer. Another unusual
visitor to the French's place was a Green Heron
seen on wing, flying low eastward, this P.M.

Spent most of day in house & studio, writing
letters & playing *Violoncelle* for Dan's entertainment
while he worked on a small angle he was
mending. He & I walked to Mrs. Warner's later
in the day. Her son, in visiting from
Mrs. Schwaner's & Louise arrived at noon to spend
Sunday with Alice & myself & Mrs. Gager of
Crescent City. Called on Mrs. P. H. 10:30 A.M. & then
left about 1:30 P.M. on 10:30 A.M. & 1:30 P.M.

Glendale

Ther

Sunday, July 16, 1916

Wear Fair

Mostly sunny but partly cloudy & densely hazy. Warm with fresh S.W. wind.

Not much bird music save at noon & on when Wood & Hermit Thrushes, Wood Pewee, Indigo bird & other sang freely. The Robins remain for the most part silent at all hours, being constantly occupied in settling food for broods of young about to leave or just out of the nest. Some engaged they do over lawns plentifully at times. Among them, this evening, appeared our little Coney? Robin, very tame & confiding as usual.

Spent forenoon writing letters. Dan & Mrs. French motored off to Hudson (42 miles) for the day.

Ralph Hoffmann called on me at 3.30, staying until past 5. I took him to Pasture Outlook when we sat for an hour or more & had a delightful talk, largely about Parkshier flora & the birds he has seen near Kansas City. He heard a Peabody bird in the bench swamp & found a nest of D. crepus with well-hatched young among oak leaves. He saw directly over rocks in oak & cedar & ft. from ground. After it had gone Mrs. Legman & her daughter came & later Mrs. Lukens. Dan & Mrs. T. returned in time for supper, after it was set on by Mrs. & Chas. Legman.

Glendale.

Ther

Monday, July 17, 1916

Wear Stormy

Raining ceaselessly, at times heavily, through forenoon. Afternoon dark cloudy. Sky clearing at sunset. Oppressively warm & humid all day with light southerly wind.

Comparatively little bird music. It has obviously begun to materially decline although most species continue to sing more or less and a few almost as freely as ever. I cannot understand the very general silence of the Robins, established before I resided here on the 10th. Last year they sang gloriously and continuously up to the 25th of July and at noon & on were heard for a week or so later.

Spent much of day in room, reading & writing. Played Victrola music in studio for an hour or more after dinner to entertain Dan & Louise. Schoonmaker whom he is making an oil painting. He & I walked down road almost to village in late P.M. Mrs. Schoonmaker departed soon after luncheon.

Glendale

Ther. Tuesday, July 18, 1916 Wea
- Fine

Clear warm & humid with
fresh S.W. wind.

Birds singing rather freely at
morn & eve but for most part
silent through mid-day hours.
The Wood Thrush behind studio
& one Hermit in the back pasture
were in full song 5-6 P.M.
At that time a Black-throated
& a Black & Yellow Warbler were singing
mostly among hemlocks there.
There also, a heavy rook calling. The
only bird of its kind noted by me in
Glendale this year.

Spent forenoon in chamber copying
Cambridge Garden notes into permanent
book from diary. Played bridge
for Dan 3-4, 30 P.M. After that
we strolled to pasture outlook &
remained on bench there for more
than an hour, talking. It was
divinely beautiful & useful there.

Glendale

Ther. Wednesday, July 19, 1916 Wea
Young Cedar birds. Pine disease. Perfect

Glorious midsummer day warm, but
not oppressively so, with cloudless sky,
brilliantly clear air & fresh bracing breeze.
Haymakers busy everywhere harvesting
the superabundant crop of tall grass.

Birds singing more or less freely all
day. Two Indigo birds vying with each
other near the house. Wood Pewee not
long silent at any time even at noon.
Hermit, Wood Thrush & Robin in full voice
towards sunset.

Hearing Cedar birds see up frequently in dense
foliated apple tree just behind studio &
examined it closely & presently saw their nest
with one young bird, the only one visible -

perched on twig beside it. He was full fledged
but crestless & somewhat more aged looking than
his parents. In neighboring apple tree found
a Kingbird's nest high up & conspicuous with
parent bird sitting, his head held high &
constantly moving about.

Spent forenoon in room copying Cambridge
Bird notes. Played bridge to Dan after
luncheon. At 4 P.M. we went into woods
behind studio & cut out a vista there.
Kate was walking down road to Hill. Interp. I. &
Spent time with him. Hummingbird of California
afflicted by rust disease & bearing down on it. I
saw 7-8 & a ~~honeycreeper~~ ~~lark~~ at 9 P.M.

Glendale.

Ther
87° may

Thursday, July 20, 1916

Bird song declining fast.

Wear
Fine

Clear & very warm but not oppressively humid.
Fleecy clouds gathering in late P.M. & brilliantly lit in
in western sky at sunset. Light southerly westerly wind.

Bird singing declining very generally and also
rather abruptly. Several species in full song only a few
days ago are now seldom or never to be heard. Others as
the Hermit, the Robin & the Solitary Vireo continue to sing
freely only at noon & eve. Through mid-day hours
to-day there were prolonged periods of total silence
in both woods & fields. The Indigo bird, Red-eye
& Wood Pewee hold out best of all but even their
musical fervor is obviously waning. The Chaffy
still sings at all hours but only listlessly.
The Field Sparrow has almost ceased. The Goldfinches
sing now but sparingly & fitfully - as is their
habit, even at the height of their late breeding season.
At night we hear the tramping of Buck Feys
coming faintly from the dead water above the
bridge dam. Only field Crickets as yet. Fine & this
numerously filling our grass fields & lawns.

Spent A.M. in chamber copying notes,
early P.M. in Studio playing bridge, late
P.M. rambling about grounds. Mr. Sedgewick &
his wife Mrs. Me. Vaughn made us a brief call.

Glendale.

Ther

Friday, July 21, 1916

Wear
Dull.

Forenoon cloudy with light showers.
Afternoon partly sunny with distant thunder.
Oppressively warm & humid.

A recrudescence of bird singing, especially
in forenoon, when the Hermit Thrush, Solitary,
Yellow-throated & Red-eyed Vireos, Wood Pewee
Indigo bird & Goldfinch sang rather freely
and vigorously. The Robins, also, joined in
from time to time & the Chaffy took
their part if somewhat listlessly. The
Wood Thrush seems to have ceased
altogether and the Field Sparrow is no
longer often heard.

I spent entire morning in my chamber,
copying Cambridge bird notes. Played
bridge to Dan after luncheon & later joined
the assembly by the fountain at end of Studio
where Mrs. French received her weekly callers.
Some 15 or 20 came among them Mrs. Church,

Mrs. Clark, Mrs. Mc. Bessing (English, with a
charming little daughter 3 years old, Mr. & Mrs.
Blomquist (he Dutch, the American both artists),
Mrs. Coulter (he Miss Sargent), I talked mostly
with Mrs. Church. In Sport hall in forenoon.

Glendale

Ther

Saturday, July 22, 1916

Wea
Dull

Mostly cloudy with oppressively warm
& humid air.

Birds singing fairly well through
forenoon and again at sunset. In
the hour heard two Wood Thrushes,
one at rear of studio, the other in
woods across road near the Warner place.
The Field Sparrow sang especially well &
often through the morning in the thick
bordering on the road.

Many gigantic Black Beetles are
segmenting the decaying trunk of an
old Butternut tree standing near
the studio. They enter & emerge from
a hole near its base & then scramble
about over the lawn, occasionally
unfolding their wings for distant flights.

My day passed much as usual.
In forenoon I wrote letters & played
violin in studio which Dan worked on
an oil painting of Boris Schommar.
In P.M. we had a call from Mr. Intosh
for whom I played many recent records.

Glendale

Ther

Sunday, July 23, 1916

Wea
Fair

Forenoon sunny, hot & humid with
strong S.W. wind. Clouds gathering by
mid-afternoon. Clear, calm, cool evening.

Birds singing only sparingly & fitfully through
warmer parts of day. Among these Red-eyed &
Solitary Vireos, Chiffy, Goldfinch, Field Sparrow,
Indigo bird, Wood Pewee. In late P.M. heard
4 Song Sparrows scattered about in Knight's brook
meadow lands, all in full song. The Wood Thrush
in woods at rear of studio sang long & gloriously in
gathering evening twilight. Robins severely silent
and feeding mostly now in recently cleared mowing
fields as are Chippies, also. At least 25-30 House Swallows,
old & young, flying into & from Knight's barn or
perched on telegraph wires near it. Big, long-legged
Rabbit, apparently not a Cotton-Tail, running at top speed,
with long, deer-like bounds, through meadow tall
grass at Mr. Intosh's. Blue Jays bellowing & Fire Birds
trickling very numerous, after dark.

Spent most of day in room, writing letters.
In late P.M. walked, with Dan, to Mr. Intosh's
where we had usual phosgene chat & light infomorphs
in sitting. Yet a great deal in phosgene at present.
Spent evening in studio with Violator playing.

Ms. Miller arrived from Paris

Glendale.

Hamilton Jefferson wounded & in hospital at Rouen.
Ther Monday, July 24, 1916 Wea
85° not Barred Owl hooting at 1:45 a.m. Four

Forenoon sunny; afternoon partly cloudy & cloudy hazy. Oppressively warm & humid all day but delightfully cool at evening when a light, refreshing east wind arose.

Red-eyed, Solitary & Yellow. Wooded Vireos, House Wren, Goldfinches, Chippies, Field Sparrows & Wood Pewee sang more or less freely through the day but the Robin, the Hermit and the Wood Thrush remained silent even at noon & eve. Among pastures, hemlocks close about Outlook & Magnolia & a Black Thr. Green Warblers were singing fitfully in late P.M. while the full song of a Song Sparrow came away now & then from the back sloping below - where a Green Heron was also heard calling - and that of a House Wren from somewhere near the Warner's house.

In forenoon played Victrola for an hour to Dan, Lonnie, Margaret & Mrs. Beulah. Also worked on copying bird notes taken before & after luncheon. Dan & I went to pasture Outlook at 5 P.M. & spent more time in horse barn. At supper time received cable message from Gallatin stating Hamilton Jefferson wounded & now in hospital at Rouen. Talked with G. about it by telephone at 8:30 & 9:00 evening on a very small & noisy telephone.

Glendale.

Ther Tuesday, July 25, 1916 Wea
80° Dull.

Cloudy, hazy, warm & humid with light southerly wind. Brisk showers in mid P.M. and steady, drizzling rain after dark.

Noted the same species of birds singing to-day as yesterday but they were heard less often and their voices seemed more listless. Only the Red-eyed Vireos kept it up early & late, with unabated vigor. One Wood Pewee held out fairly well and one Wren's voice is as rich & gushing as ever although now used more & more sparingly. The Robins & other Thrushes have lapsed into almost total silence. The Indigo bird, Goldfinch & Field Sparrow still sing well but not freely, the Chippie almost as freely as ever but only listlessly. Of the woodland birds I now hear only the vireos and the Wood Pewee, with an occasional Tanager & now & then a Black Thr. Green Warbler.

Altogether the total daily volume of bird music has shrunk fully over half within the past week and there are now frequent prolonged periods of total silence in field, orchard & woods.

Day passed as usual. Played Victrola in studio 10-30-11.30 a.m. Wrote letters & copied song notes in chamber. Walked down to Warner's with Dan at 5 P.M. Spent evening in front, talking

R. J. Wood. Bird. recorded the 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Glendale.

Ther Wednesday, July 26, 1916 Wea
Stormy

Dark, cloudy, densely misty & comparatively cool, although oppressively humid, with persistent drenching rain in forenoon and a steel heaven but briefs downpours in late P.M.

Stimulated, no doubt, by the relatively cool & mist-laden air coming out of the South were many of our familiar birds sang at frequent intervals all day, almost if not quite as sweetly & fervently as a month ago. Among them were the Solitary & Red-eyed Vireos, the Song, Field & Chiffy Sparrows, the Indigo bird & the Scarlet Tanager. The House Wren & the Wood Pewee also sang well, & the Great Horned Owl. The Wood Thrush at rear of Studio made the dripping woods ring with his rich, carlike voice for a minute or more as twilight was deepening at evening. Shortly afterwards 2 House Wrens sang almost continuously for several minutes after off no Robin voice was heard.

Worked on notes copying through most of day & spent an hour with Dan in his field at Studio in late P.M. when he was working in his Lincoln. Dick Dana arrived at 5:30 & Mr. & Mrs. Ames French an hour later. We had an unusually sumptuous dinner & after a bit feast on plums & then in studio, smoking & talking until past 11 & closed.

Glendale.

15 Ther Thursday, July 27, 1916 Wea
Fair

Partly cloudy and very hazy, yet sunny for most part and oppressively warm & humid up to 4 P.M. when the light wind shifted from southerly to easterly bringing refreshing coolness & increasing cloudiness at the close of an exceptionally trying day & week.

Most of the birds heard singing yesterday were no less freely & pleasingly vocal to-day while the Red-eyed & Solitary Vireos, the Chiffy, the Field Sparrow & the Indigo bird, sang almost as freely as in early June. I heard the Wood Pewee only occasionally, however, and the House Wren but twice. A Wood Thrush at rear of Studio & a Hermit further off, sang continually for several minutes in the dusky evening twilight after bats had appeared against the glowing western sky & the last Robin flown to roost. After dark night began we heard only the chirping of Field Crickets, the distant bellowing of Bullfrogs and the call thrice given, of some passing bird migrant flying southward - perhaps a veery although it did not sound quite like that. At best times too close in that presence of Dick & Fox crossed the lawn under moonlight a deafening clamor. First Cicada flying this noon - very late for it to begin. Day passed as usual, playing bridge in the shade on lawn in forenoon, working in character, visiting Dan in his Lincoln in late P.M. Well left at shortly after breakfast to preside over meeting Civil Service Council at 5 o'clock & to spend night there.

Noted through at base of Gladiolus in vicinity of bridge. In leaf, Conchocarpus bracteatus Wieg. et Griseb.

Ther

Friday, July 28, 1916

-7 Wea
ine

Blondless but densely hairy with fresh, cool
easterly wind; altogether most comfortable day since 19th.

Despite this marked & rather abrupt change to drier, cooler weather or perhaps because of it the total volume of bird music to-day was decidedly less than on any previous sunny day thus far this summer even the Red-eyed Vireos & Chippies singing only occasionally & listlessly while there were prolonged periods of total silence on the part of all our local birds, quite evidently this annual song period is fast nearing its end & is indeed always happens about this date - more's the pity

At noon Mrs. French called Dan & me from the kitchen to see two deer in the field west of the house. We watched them for at least 15 minutes as they fed slowly across it in their usual dainty manner, nibbling here & there at what little tufts of fresh clover & between bites stretching up their long necks to watch & listen for any sign of impending danger. Some of their poses were extremely beautiful & all their movements easy & graceful. Both were well-grown does in bright red summer coats. One had an almost hairless day & that of the other was but thinly fringed.

Mrs. Francis' Afternoon at home very pleasantly
 attended. Upwards of 20 people came to it among them
 Mrs. Allen & company with Mrs. Williams & Miss Shipps
 and old friend of - Mrs. Ludlow, Mrs. & Mrs. L. Smith,
 Mrs. & Miss Smith, Mrs. Hoffmann, a young French violinist
 & others. Little Hans rejoiced in it & P. M. We spent
 some in fact on a big supper.

Glendale

Ther

Ther Saturday, July 29, 1916

Wea
Fair

Summer, all day, but with sky obscured &
all except near mountain ridges quite hidden over
by dense, smoky haze. Coming in on knees
between. Early morn almost uncomfortably chilly.
Mid-day hours just agreeably warm with light
southerly breezes.

isn't as loud music than yesterday with prolonged periods broken only by the occasional song of a Red-eye, an Indigo bird or a Chipping, a Hermit & a Towhee singing steadily in mid P.M., however, and a Solitary Vireo at sunset. Wood Thrush & Robin severely silent.

Butterflies of all kinds continue very scarce.

I see no more than 2 or 3 day cross the
familiar Yellow Clouded Sulphur & the Whitish
Cuckoo Bunting's being few in number.

Dick & Dan went to Steelbridge in forenoon. I spent
it in my chamber, writing. In early afternoon we
three set forth for a walk through woods & fields near
as in bygone days, near Cambridge. During our walk
behind studio we crossed the little North Branch of
Cambridge in bridge past in where a few dark swallows
were still flying over the meadow grass. Night was
declined for sleep at home on a fine clear slope
listening to the voice of a Hummer & calling out old times
Hear we crossed the larger river & returned to town
to the hotel. Finally reaching Mr. Jackson's place where
in his garden long with it. In twilight we saw who
entertained us as usual last time. Among water & Coolidge
Dick motored over to the diamonds, with Mrs. J. Maynard
after supper. Dan, Miss Dorgan who arrived this P.M.
I spent evening in the city & away 26.00.40.

Glendale.

Ther
80°

Sunday, July 30, 1916

Wea
Fair

Cloudless yet so densely smoky or hazy that the sun was scarce visible in the murky heavens and cast no shadow of tree or other object on earth. Warm & humid again but pleasantly cooling S. W. breeze.

Tanagers, Red-eyes, Field Sparrows and Song Sparrows, Indigo birds, Chippies & a Hermit Thrush singing rather freely through forenoon.

During a three mile walk (11 a.m. - 1 P.M.) to & around Hager's Pond I heard no less than 5-6 Tanagers & as many Field Sparrows; also 3 Song Sparrows & 2 Indigo birds. The studio woods silent after sunset save for a few faint notes from a Wood Pewee.

Leaving the house at 11 A.M. in company with Dan, Dick & Miss Longman I enjoyed the look about referred to most keenly. We went first around the eastern base of the mountain ridge through dense patches of green hummocks, fields through morning glories, fields of red & white Red-bellied flowers, then around the pond on its north side, thence hawmward through young chest pine woods where we found & admired hosts of brilliant colored mushrooms, beds of blue-flowered Pyrola in places, Indian pipe, umbelliferous ferns of various kinds & other attractive woodland vegetation. As we passed Knight's barn a swarm of Swallows were circling about it, some alighting on telegraph wires. An old man walked fully a mile back. Dan & Mrs. F. went with Miss Longman & Dick Dana went on a long motor ride in afternoon. I read & wrote. We spent evening on piazza.

Glendale

Ther

Monday, July 31, 1916

Wea
Fair

80°, 9 a.m. 88°, 1 P.M. 82°, 7 P.M.

Oppressively hot & humid with light S. W. wind. Sun shining dimly through dense smoky haze coming from great forest fires in Canada, the newspapers tell us to day. It lifted just before sunset when, for a time, the landscape was flooded with strong saffron yellow light very like that of memorable Yellow Day many years ago. Now, as then, the greenest lawns looked strangely blueish & everything had a weird appearance. Shortly after sunset the wind changed to northerly & increased in strength as the night wore on bringing refreshing coolness & relief.

Red-eyes, Indigo birds & Chippies sang a little at wide intervals through the day. A Solitary Vain sang well but briefly in late P.M. One House Wren uttered a single gushing note. These were literally all the bird songs I heard. No bird voices whatever broke the stillness of woods & fields as evening closed in on the heat stricken land.

Dick Dana & pretty little Louise Schornmutter departed at 8.15 a.m. Mr. & Mrs. Lamond & their friend Mrs. Mallory dined with us at 7.30. We spent evening in studio with insecta playing up. I wrote in forenoon & after luncheon. No work in day.

✓ Lenaxu,

Ther Tuesday, Aug. 1, 1916 Wea
66° at 8 a.m. 7 mi

Brilliantly clear & refreshingly cool
with light northerly wind. Even the more
distant mountain summits quite free from
smoke or haze - for the first time of late.

Comparatively little bird music. Red-eye Vireo, Chipping, Indigo bird & Field Sparrows contributed most of it but even they sang only fitfully & listlessly in mid day hours. A Hermit in full song on crest of mountain ridge for upwards of an hour before & after sunset. Two Chippies sang rather vigorously in evening twilight.

Only 2 Robins, an adult pair, linger on our lawn.
Kingbirds still feeding young in nest by Studio.
The Goldfinches still circle high in air, with
deep undulations accompanied by sweet mid-summer
flight calls, but I have not heard one sing since July 27.

Spent most of day in Chamber reading
out Concord bird notes. Dan called me out
by one Meadow Lark whistle of boyhood days, at
5 P.M. when we climbed his mountain ridge
to sit for upwards of an hour on the bench there.
The air ~~was~~ almost ~~border~~ border & the view increasing
the sweet notes of the chimers at Stonebridge came
fairly to our ears as dusk took of birds singing at
lower levels. A Hermit Song sparrow & a Partridge?
dark birds came down about valley before dusk closed

21. Hendah.

Ther Wednesday, Aug. 2, 1916 Wea
64° at 8 a.m. Perfect

Clear & cool with fresh north-west wind. Changing to S. W., with renewed haze, in mid P. M.

Birds singing more freely than yesterday especially in early morning. Strutting along road at western base of ridge shortly after breakfast I heard a Tanager, a Hermit & a Black-throated Green Warbler in full song. Two Red-eyes & a Solitary Say freely near the house before & after this and one Thrasher Say brokenly. A Chickadee uttered its Phoebe call repeatedly at 10 a.m. After short long intervals of silence broken only by the light notes of Goldfinches galloping high in air. Total silence in case of u. den, no doubt, to the strong southerly wind that blew with increasing violence towards sunset.

Spent most of day working on General
-id notes. To hillside Studio at 5 PM

Don passed through on Lincoln Station
v we started for a walk through the pine
grove pasture to the westward. Very many
of the white pines there, affected by a fresh
outbreak of pine disease, have turned rusty red
or later. We noted no birds seen a few Chickadees.
Evening Sparrow in flocks, everywhere but none
seen a day

Glendale.

Ther

Thursday, Aug. 3, 1916

Wear
Fair

Forenoon Sunny, afternoon Cloudy.
Rather warm. Moderate southerly wind.

Few birds singing in early morning
and none whatever through most of day.
At least 3 different Hermit Thrushes sang
almost continuously on the mountain
ridge from 6 to 7 P.M. I heard no other
birds at evening except two Black & white
Creeper, each of which gave two full song
ones, and an Oven-bird that uttered
the flight song once, a Red-eye that
sang feebly & briefly. Truly coincidently
the season of bird music has now
practically come to an end.

Spent most of day in room writing
but played bridge for an hour in
the studio where Dan was making
a bust of Miss Longman. He ceased
work at 5 P.M. after which he spent
almost two hours rambling about in the
humble pasture & sitting on its eastern slope.
Spent a silent evening in the parlor.

Glendale.

Ther
80° may

Friday, Aug. 4, 1916

Wear
Fair

Sunny but hazy. Very warm and
somewhat humid. Light S.W. wind

Two Red-eyed Vireos singing feebly & a
Solitary rephensely in early morning; a Tanager
in full song at 10 a.m. No bird music
whatever through mid-day hours. A Chiffy
trilling listlessly and an Indigo bird chanting
fervently were the only birds heard towards
sunset - or after it. A flock of 30+ Swifts
circling high at 4 P.M. Eight dropped into
Studio chimney after sunset. We have heard
young chattering there for several days past.

Two Doves, both does, appeared in the
front west of house at 7.30 a.m. & were
seen by every member of the family save me.
One of them circled close about a cat crouched
on a rock, prancing & "blowing" loudly.

Spent most of day in room, writing.
Mrs. French's weekly reception less numerous
attended than usual. Miss Trueman came; also
Mr. Intosh came; and a goodly number of women.
Mr. Crookshank dined with us at 7.30. When
I presented to him the French paper that
Mr. Sherman gave me years ago. He promised me

at Selma
Indigo
the
from
to
it shall

Glendale.

Ther
82°

Saturday, Aug. 5, 1916

Wea
Fair

Sunny but densely hazy, oppressively warm & humid, with light southeasterly breeze. Evening comfortably cool with fresh westerly breeze.

For hours in succession through the day no bird voice broken the stillness of the sultry, mist-laden air. At times, however, a Red-eye or a Chaffy would utter a few hoarse notes. In the early morning a Solitary Vireo was in full song for many minutes as were a Thrasher & a Song Sparrow towards sunset. All night sounds, save the occasional frying ones of Cicadas, seem to have ceased or not begun. Even the chirping of Field Crickets has not reached my ears of late. Butterflies of every kind continue scarce or wanting.

I wrote in my room through the entire day and took only a short walk down the road at sunset. Dan & Mrs. T. left us at 8 a.m. to spend the night at the Mitchells in Loma. We had at dinner, besides Miss Longman & Laurina Fletcher, Mr. & Mrs. Leslie & Mr. & Mrs. Fowler.

Glendale.

Ther

Sunday, Aug. 6, 1916

Wea

86° First noc. flight of South-bound migrants Fair

A duplicate of yesterday, with even higher temperature and more oppressive humidity.

Despite the weather conditions there was a marked and by no means inconsiderable resumption of full voiced & even protracted singing continued, moreover, from early morning through most of the forenoon & less fervently in afternoon also. The Red-eyed Solitary Vireo, the Tanager & the Chaffy took the most prominent parts in it. The Wood Pewee also sang well but not often.

The first nocturnal flight of South-bound migrants noted for this summer began about 8.30 P. M. and continued until 10.30 or later. During this period the faint hissing chirps of Warblers came almost ceaselessly to my ears every few seconds. Hence there must have been very many passing. I heard no Thrashers calling.

Spent day in & about house writing letters in Dan & Mrs. Fowler returned at 6 P.M. Several people called.

Glendale.

Ther 88° Monday, Aug. 7, 1916 Wea Fair.
Cats exterminate Chipmunks, but do not molest our birds, apparently.
no break as yet in this protracted & very trying spell of sultry weather. The light southerly breeze seems a trifle cooler than yesterday, however, doubtless because the sun is shining only dimly through thin clouds & smoky haze. Heat & humidity intense in mid-afternoon. Evening comfortably cool with strong breeze.

Red-eyed & Solitary vireos Chipping & an Indigo bird singing rather freely & a Wood Pewee occasionally during early morning hours. House Wrens feeding second brood of young in box in apple tree behind Studio.
Two cats, haunting the place at all hours, do not seem to molest or even alarm our nesting birds or their young but Chipmunks, very numerous a month ago have since totally disappeared & I have over two attractive little wild Rabbits!
Indigo bird singing long & well at sunset.

Spent forenoon in room writing. Began again after luncheon but had to give it up because of heat prostration accompanied by nausea. Sat on Studio piazza after the evening spent in parlor.

Glendale

Ther 90° max. Tuesday, Aug. 8, 1916 Wea Mixed.

Forenoon sunny, intensely hot & humid, densely hazy, more trying than anything before this summer. Heavy thunder showers at noon. Within half an hour the fell from 90° to 78°. Afternoon dark cloudy & agreeably cool with occasional light showers.

Not much bird music, but a few species sing rather freely, especially at early morn'g & toward evening, among them Red-eyed & Solitary vireos, Towhees, Indigo birds & Chipping. Very few Orioles here this summer. I hear only one or two daily. Bull-birds no longer vocal. Tree Toad calling between showers.

My room too hot for occupancy, even after cooling shower. Spent much of day in Studio playing Victrola for Mrs. Ballet in forenoon, for Sam & Miss Longman - whose bird he has almost completed - in afternoon. In late P.M. packed my trunk & postmortem - a trying task for the room was stifling. We spent evening in parlor, way out but me absorbed in books & newspaper.

Glendale - Cambridge

Ther Wednesday, Aug. 9, 1916 Wea Dull.

Forenoon cloudy & cool with strong north east wind. Afternoon rainy.

At Glendale, in early morning, heard a Solitary Vireo, a Wood Pewee & a Chiffy, all singing rather freely.

In our Cambridge Garden, in late P.M., heard a Goldfinch & saw a Chipping Swift. Percy says he has seen no Hummers this summer.

Left Glendale by 8.05 A.M. train.

Dan & Miss Longman accompanied me to station in the Dodge car. On reaching Pittsfield I had not long to wait for the 8.55 train for Boston. It proved to be a slow accommodation train without parlor car but I enjoyed the ride all the more on that account because having a better opportunity to see details of scenery, villages, wild flowers etc along the way. Purple Loosely blooming abundantly in meadow & pond & river at Ashland. Wild Sunflowers only when Pine Crest Road through Worcester County, Chestnut blossoms equally as much of eastern way. Reached Boston at 2.15. Rail road cut at Harvard Square. Home by 3.30. Joyous welcome from Jim.

Cambridge

Ther Thursday, Aug. 10, 1916 Wea Stormy

Dark cloudy with strong, chilly N.E. wind and almost incessant, but at no time very heavy, rain.

In Garden: 2 Red-eye singing freely & briefly, 2 Jays screaming, a Thriller calling, a few House Sparrows chattering, a single adult Robin running on the lawn. Foliage of trees & shrubbery exceedingly dense & luxuriant. Flowers water soaked & forlorn looking.

Spent day in Museum working letters & putting things in order. Dined with the Bartletts on Highland Street at 6.30 & sat with them afterwards in the parlor until 8.30 when Harry worked back with me staying half an hour. To talk over the administration of G. Kenneth Jefferson fund. Mr. decided to see Mr. Brown about it early next week.

Barnbridge - Boston

Ther 5:10 min 69° May Friday, Aug. 11, 1916

Wea Fine

Clear & very cool with fresh northerly wind.

In Garden: 4 Robins (all adult) on front lawn; Flicker, Grackle, Swift & House Sparrows heard. Looked & listened in vain for migrant Warblers. They should be coming from further north and settling among our profuse leafage, by now.

To Boston at 10.30. Went direct to one office where I formed Gallager & Darling, signed & swore to one further Annual Probate Account, Josephine Bates called about noon to discuss plans for getting her mother out of our house in Boston. I declined to meddle in the matter personally. Arthur took me to lunch at Youngs. Every one says last Tuesday was one of the hottest trying days ever known in Boston.

Left office at 2 P.M. Called at Stenroos for records and at Washington Stearns under used & two cheap suits for General House by 4 P.M. Packed suit & went in evening. Many of them good but no "jams"

Barnbridge

First Tree Chickadee

10 Ther First Migrant Warblers in Garden Fine Saturday, Aug. 12, 1916 Wea

Clear & just pleasantly warm with light westerly breeze

In Garden: Nashville Warblers chirping at intervals this day in jungle & appearing at sunset in outstanding Hawthorn & Cedar where I viewed him clearly. White Throats also heard by day in jungle & seen at evening by pond front of Museum. Besides these freshly arrived migrants I noted only the usual summer residents - several Robins (ad. & juv., Red-eye! Singing freely), Goldfinch 2 ad. "galloping high in air with throat calling but no full song), Flicker, 2 Jays (screaming freely), Browned Grackles, Swifts hovering overhead at evening 1.

One Cuckoo heard through day. Tree Chickadee in nearly full cry after dark. One "chirped" a little, freely, on evenings of 10th & 11th.

Garden Loas fast repopulating our grounds now that they have the pond to breed in. Found a dozen or more of assorted sizes in cellar window area

to day & with them a Frog. Hundreds of very small Toad tadpoles still in pond. About a dozen Frogs there.

Spent day in Museum working letters in evening in den reading newspaper, mostly.

Cambridge.

Ther. Sunday, Aug. 13, 1916 Wea.
More migrants arrive. Mixed

Raining steadily from day break till 11 A.M. after that alternating cloudiness & sunshin with not infrequent brisk showers. Very cool all day.

In Garden. During the entire forenoon there came to my ears, through open Museum windows, no bird voice save occasionally that of a Robin, a Goldfinch, a Jay or a Flicker. But on entering the jungle at 1 P.M. I found associated there, feeding busily & silently in the tree tops or their upper branches, 5 Red eyes (ad. & juv.), a Chestnut sided Warbler (♀ juv. in full autumnal plum. showing no chestnut) a Black & White Cuckoo (juv. ♀), 3 Bal. Orioles (all young in autumnal plum.) & a King bird. There were also several Robins & the flight call of a Bobolink coming from afar. A young robin running over leaf near back piazza while I was sitting there had a band of almost pure white 2 or 3 inches broad across its back between the shoulders & over its faintly spotted breast. A single Swift at evening.

Sporadic day in Mus. writing letters & bird notes. Walked up Brattle St. at sunset. Austin White is remodeling old Nichols house rather extensively. I met there a Mr. Jacobs & his wife. He came back with me to the old Riedel's window pane. Solitary evening passed in reading.

Cambridge.

Ther. Monday, Aug. 14, 1916 Wea.
54° min. 70° max. Superb

Typical autumn-seeing day, brilliantly clear & bracingly cool with fresh, dry N. W. wind.

In Garden: Nashville Warbler (juv. very tame), 2 or 3 ad Robins (on lawn), 2 young Jays (in pale ragged pl.) pair of ad. Goldfinches (eating seeds & wild sunflower seeds), young Oriole (with Goldfinches on sunflower heads and apparently eating the seeds), Flicker (calling) 2 Swifts circling low in late P.M., several Crows cawing lustily (as if snatching something, possibly a snake bird) in Hubbard Park long after sunset & indeed when it was almost dark I rarely if ever before have heard from any of them ^{such} an outcry so late in the evening twilight).

Tree Crickets chilled by cold & chirping only feebly & intermittently. Butterflies of various species occurring rather plentifully about our flowers. A big Swallow-Tail (truncus) there to-day.

My day sped happily. It was devoted partly to writing out Concord bird notes, still more largely to pruning trees & shrubbery - with perhaps assistance & Jimmy's companionship also.

Le. Bridge - Boston

Ther Tuesday, Aug. 15, 1916 Wea
Night hawk peeping at us. Fine

Bleak & cool (less so than yesterday,
however) with light westerly wind

In Garden: 4 Robins on lawn; Bal. Oriole
in superb ant. pl. in jungle, 9 A.M.; Hummer
with white throat; at bee bath; Maryland
Yellow. Thrush in lilacs & other shrubbery;
unidentified Warbler flitting higher & higher
high in tree tops; 2 Red-eyes in jungle;
4 Grackles on lawn & 12+ flying over at one;
4 House Sparrows under lindens; Flicker &
Jay calling; Crows cawing; 2 Swifts circling
low at sundown; unseen Night hawk
peeping scores of times, evidently on wing
& not far off eastward, about 7 P.M. Sunsets -
the Orioles in full chorus first time this summer!

To Boston at 10 A.M. Met Harry Bartlett at 53
Dorchester St. where we arranged with Mr. Brown
to send 100¢ to day to Betty Jefferson from
C's "Kismet Fund." Spent 2 hours at our
& did a little shopping. Home to lunch. Wrote
letters & bird notes in P.M. Harry B. took me
around to Ash Pond & through Belmont 5-6 P.M.
his Franklin car. I saw very small, one rough shinned,
meadow larks in full song. Chantrelle & Red. Robins
Flank Pond, Solitary loon, Canada.

Cambridge - South Garmouth

Ther Wednesday, Aug. 16, 1916 Wea
Fine

... & very warm with fresh S.W. wind,
evening cool (at S. Garmouth).

In Garden: 5 Robins eating rum cherries (not
nearly ripe in tree by Museum gate); 3 young
 Orioles, ditto; 2 Titmice Black & White Creepers,
1 Red-eye, 1 Flicker, Grackle, Swift, 2 Jays, 2
Crows (Hubbard Pk) several House Sparrows.

Wrote letters in forenoon. Lunch at 12.15.
Took 1.33 Train for Cape. Vegetation of every kind
wonderfully green & luxuriant all the way. Only
a few (less than a dozen) Terns flying along
Ship Canal when we passed with large gulls
last year about this time. As our train was passing
head of Barnstable marshes a flock of Blackbirds,
apparently Red-wings & numbering thousands, rose
and circled in a great, dusky cloud. Here also,
some seen on rising countless Barn Swallows, two
small flocks of "Peeps", several Meadow Larks,
a Green Heron & a young Marsh Hawk.
Reached South Garmouth (now Bass River) Station
at 4.35. Collins whistled me quickly to the
Stones, in his new Ford depot car. Alvin Stone
& Miss Whiting (about Thayer's niece), gave me
a pleasant welcome. Several others in garden.

South Yarmouth

Ther

Thursday, Aug. 17, 1916

Wea

Perfect

Brilliantly clear, warm in sunny, shaded places, cool in all shaded ones exposed to fresh crisp easterly breeze; altogether rarely perfect day.

Spent most of forenoon in or near house, also in calling on the Frothinghams, Howes, Garg's, Miss Kittredge & other neighbors dwelling along shores of Bass River. Song Sparrow singing steadily 6-10 a.m. on dome of wind-mill, no other bird in full song. Chippies flitting close about house; Jays throng without in front of it; Hummers playing frequent visits to flower garden; a Swift careering overhead; Meadow Larks flying past; a few Terns circling high, with shrill calling, over river & marsh.

With Mrs. Stone, Miss Whiting & Miss Susan Brandis, walked to Swan Pond, 4-6.30 P.M. Never

before has it seemed to me quite so entrancingly serene & beautiful. Tree, shrub & herbaceous vegetation obviously more luxuriant than ever before & viewed to rare advantage through the pallid air & bright sunlight. Very many birds there, too. Terns circling & screaming, Laughing & Herring Gulls, many now & then in light, Kingfishers, Green Herons & several Spotted Sandpeeps along shores near fish house. Lesser Woodpeckers, Black & White Ws., fairly plenty. Prairie Wrenblers, Wood Pewees, 2 Towhees, 5 Jays, etc. in num. cawed clear ahead. Cuckoos, not to be missed. Golden Rob. etc. in lower woods. Miss Davis Sangford wrote as follows:

South Yarmouth.

Ther

Friday, Aug. 18, 1916

Wea

Fine

Sunny & warm with light, cool easterly breeze. Sky flecked with rose-tinted clouds at sunset.

Spent forenoon in or near house, at 4 P.M. went with Mrs. Stone to baseball grounds by river to witness annual bridge sports. Very many villagers & summer residents there with their children, all intermingling in a happy throng & many taking part in races & other co-operative frolics of varied kinds. Climbing ground pole most diverting & also hopelessly difficult at first.

Miss Whiting left us just after dinner & Miss Crumble arrived by a late afternoon train. With the latter we sat up late in the parlor, talking of many things.

South Carmouth - Cotuit Narrows.

Ther Saturday, Aug. 19, 1916 Wea
Perfect.

Clear & warm with light S.E. breeze.

To Haines & Long Ponds with Mrs. Stone in forenoon (10-1). The former brim full with its ordinarily broad grassy margin submerged & blooming *Sagittaria* showing only here & there above dream-haunted shallows. Oak woods very generally devastated by Gypsy larvae and swarming almost everywhere with ♀ moths laying eggs & ♂♂ engaged in divisionary mating flights. Only a few Ant Lion pits in sand bank roadside colony. At least 6 or 7 Wood Pewees heard mostly in pitch pine woods. Mixed flock including Pine, Prairie, Black-throated Green Warblers, Oven birds, Red eyes & Chipping, met with near Long Pond.

Capt. Hall came for me in his new Overland car at 3.15 bringing Mr. & Mrs. Almy & Mary. We had a delightful ride through Hyannis, Centerville & Osterville. 2 Carolina Doves in field at Parker River. Called at the Boxers' but Fannie's Minnie was away & the house locked up. Reached Cotuit Narrows about 5 P.M. Mary had P. - was going away home at

Cotuit Narrows.

Ther Sunday, Aug. 20, 1916 Wea
Perfect.

Cloudless with light easterly breeze. Warm in sun, agreeably cool in shade.

Prodigious outcry of Great Blue Herons about midnight & near at hand aroused me from sound sleep. Sounded engaged in it uttering squawking cries unfamiliar to my ears in any past experience still remembered. Wood Pewees sang freely at day break & later, Pine Siskins a little now & then. Laughing Gulls & Common Terns heard over river. Several Crows very near house, coming in small flocks for half hour after sunrise. Spent most of day in doors talking with

Mr. & Mrs. A., Mary, Nancy, Betty & Dr. Coll. Dr. James Putnam & his son called. At 5 P.M. Almy & I started for a walk along Pine Needle Road. Oak woods here & elsewhere more or less nearly stripped by Gypsy larvae. Countless dead moths & very many nests. Evidently all had laid for some time living Wood Pewees everywhere. We were scarce over beyond sound of their plaintive voices. All Eagle bells seen or heard in vicinity, Seaside, Maryland Yellowthroat, Catbird, Downy W. Evening spent in living room, talking

Boston - Cambridge.

Ther Monday, Aug. 21, 1916 Wea
91° May. Fine

Clear & hot but not humid. Light
southerly to south-easterly breeze.

Long outcry of Great Blue Heron & gnawls
of night Heron heard in middle of night.
Pine Warbler singing a little, brokenly, and
at least 2 Wood Peckers freely & well, shortly after
daybreak & later. Crows assembled close about
house soon after sunrise to carry on a
protracted conversational cawing even more
remarkable than that of yesterday morning &
quite without precedent in my past experience.

It was dead calm & decidedly warm
when I said good bye to the Almys at 9.30 a.m.
& started for West Barnstable with Capt. Hull.
We passed several flocks of Fox & Barn
Swallows on telegraph wires along the road.
Took 10.10 train for Boston reaching there
at 12.30 & going direct to our office where I
saw Darling, only. Lunched at Martin's &
came out to Cambridge about 3 P.M. When
there, had a short nap, dined alone on
board piazza, called on the Howes 7.30-9.
2 Robins one Laron, King bird heard in lindens

Cambridge.

Ther Tuesday, Aug. 22, 1916 Wea
Charlie & Ned Read insane Fine

Cloudless and very warm with
light southerly breeze.

In Garden 5 Robins, 2 Black & White
Creepers (♂ & ♀ in lilacs), a Water Thrush, a
Red-eyed Vireo (heard only), sev. House
Sparrows, a Baltimore Oriole ♂ ad ♀, 2
Jays &, a King bird (perched on topmost
spray of elm in front of Almy house),
5 Swifts circling low at evening.

At the Merrill Wyman place about
midnight 50+ Housew. Winkles & 3 Robins
flew over the westward, doubtless toward
some more or less distant roost.

Countless Tree Toads chirping fast
& ceaselessly last night & this, recalling
summers long gone for tis many years
since I have heard them so numerous.
Cicadas shrilling all day long. Many
Butterflies about our flowers.

Harry Spelman at breakfast with me on
back piazza. Spent day in Museum
writing letters. Walked up Appleton & down
Shafter St. at sunset. Charlie & Ned Read
happily insane. & sent to Waverly two weeks ago.

Cambridge-Concord-Cambridge

Ther Wednesday, Aug. 23, 1916 Wea
92° max, ... Fine

Clear & intensely hot with S.W. wind,
light at first, freshening through afternoon
dying away at evening, to be succeeded, at 7 P.M.,
by northerly wind & a cooling thunder shower.

In Garden: 5 Robins, 2 Jays, a Grackle,
: Goldfinch

Concord Farm: Several Robins, an Oriole juv.,
a Hummer do., a Cat bird, a Cedar bird,
a pair of ad. Goldfinches (♂ in full song), a
family party of House Wrens (in stone walls
along lane, ♂ singing a little, fully fed Chipping
Sparrow heard scrubbing in dining room floor
& shells of recent-hatched eggs in parlor
fireplace.

Harry Spelman at breakfast with me at 7.
Gilbert & I took 8.09 train Waverley to Concord.
Mr. Manns supplied us with horse-drawn
carriage. Reached Farm about 10 a.m.
Spent remainder of forenoon in or near house.
Crops flourishing, foliage most luxuriant,
garden flowers: alling Braun Show, fall bearing
strawberries loaded with ripening fruit, Walked to
Rich Field after dinner & motored to Cambridge
9.15-4.30 P.M. Blowing hot in woods.
Dinner at the Fairchild's, with Cousin Edg., Sally
& Jack at 7 P.M. Home by 8.20.

Cambridge

Ther Thursday, Aug. 24, 1916 Wea
C. returns fr. Williamstown Dull.

Dark cloudy, foggy & cool with light
rain in early morning.

In Garden: 5 Robins, an Oriole bird,
an adult ♂ Oriole in nearly full song,
a Jay uttering the song melody of musical
notes (at 4 P.M.), a Flicker calling, a
Swift flying low.

Tree Crickets out in great force this
evening. Never before heard in Concord.
There were many more. C. says they
began chirping at Williamstown on
the 15th the very same date when I
first heard them here in full chorus.

Spent most of day in Museum
working letters. In P.M. motored to
Porter's Station to meet C. who arrived
there at 8.51, from Williamstown.
She has returned because of increasing
dimness of sight & will consult
Dr. Inackentzen about it to-morrow.
I stayed all this August records to
her this evening & she tells the selection.

Cambridge

Ther Friday, Aug. 25, 1916 Wea
Golden-wing Warbler in Garden. Perfect

Incessant clear sunshine, light westerly breeze, just agreeably warm, low humidity

In Garden: 10+ Robins feeding on sum cherries by Museum gate; Golden-wing Warbler, Oven-bird & several Orioles (one ad. ♂ singing brokenly) in jungle; Black & white Creeper ♀ juv. & 2 Jays in lilacs; 2 ad ♂♂ Goldfinches eating wild sunflower seeds; Downy W. ♀ juv. hopped L., in pear tree; Flicker & 4 Grackles on lawn. Think Chorus Tree Crickets after night set in. Toads (big ones) scattered along gravel walks (three in sight at once) just after sunset.

Walking quietly along path through jungle about 9 a.m. I came suddenly on the Golden-winged Warbler a young ♂ in fresh autumn very olivaceous above, with black throat somewhat obscured by grayish and bordered narrowly with yellow of which there was also a good deal on his flanks. All this was seen clearly as he hopped & flitted low down in a thicket within 20 feet of me for half a minute, after which he was seen no more. This is my first Garden record for this species, if I remember right.

Spent part of day working in field, part reading aloud to C. Stan I saw Dr. Isaacson in Boston this forenoon. He is not discovering about his eyes.

Cambridge

Ther Saturday, Aug. 26, 1916 Wea
Fair

Sunny but hazy, almost windless, warm.

In Garden: About 15 Robins, young & old, feeding on sum cherries by Mus., also on ground in jungle; Minioptila ♀; Nashville Warbler, dull-colored juv.; Black-poll juv. ant. pl.; Water Thrush; 2 Oven birds; 3 juv. Orioles; 2 Jays; Red-eyed Vireo, singing a little feebly; - all these keeping mostly in jungle but also flitting restlessly in & thither about the entire garden; 2 Redstarts, a handsome ad ♂ & a ♀ together & apart from all other birds, in Birch Grove; Goldfinch ♂ ad. at sunflowers; 4 Grackles on lawn & in trees; 2 House Sparrows; a Purple Finch, ④ Cedar birds & a Swift (at eve), low on wing, the Cedar birds flying from sum cherry tree; 2 King birds perched on tree tops near Museum, calling; Crows heard afar off. One restless Warbler, at chirped like a Junco & also looked like one kept too high in tree tops, among dense leafage, to be certainly identified.

Spent much of forenoon following all these birds about, opera glass in hand. Note letters & signed notes in afternoon. Towards sunset thrashed with ♂ up off lawn & down to C. Stan. All these Robins called at 4 P.M. to hear Cans. Oriole letters read by C.

Cambridge.

Ther Sunday, Aug. 27, 1916. Wea
Great inroad of Robins & Orioles. Fair

Mostly sunny & very warm and clouds gathered in late P.M. & light rain fell after dark.

The Garden flooded with Robins & Orioles from 9 A.M. to almost noon. To count or even closely estimate their numbers proved hopeless for they overspread our entire grounds & were constantly flitting to & fro. Altogether there could not have been less than fifty of each species & may well have been twice as many. As I sat at breakfast on the back piazza they appeared by dozens in the sunny opening just outside & afterwards were met with even more numerous throughout the jungle while they swarmed for hours in the luscious cherry by the Museum gate, feasting its ripe fruit. Many of the Robins were adults but only one ad. ♂ Oriole was seen. Of other species I noted 2 Minioptilas, a Nashville Warbler juv., an Oven bird, 5 Redwings (one singing freely), a Water Thrush, a Flicker, 2 Jays, a King bird (heard), Cedar birds (heard), Crows (heard) & 4 Starlings in elm, one singing long & rather pleasingly.

Spent forenoon in Garden & Museum, writing several letters. C. went to church at St. Pauls. She & I walked thru Hubbard Park & up South to in late P.M., meeting Sally & Brita Corcoran after supper.

Cambridge.

17 Ther Monday, Aug. 28, 1916 Wea
Stormy

Dark cloudy & cool with heavy thunder shower about 10 A.M. followed by almost incessant rain lasting until night.

In Garden: At least 30 or 40 Robins but only a few Orioles (certainly not more than half a dozen. Not more than many other birds. Of the last mentioned, indeed, I noted only a Redstart juv. in ragged plumage, a ♀ Minioptila, 2 Jays, 4 Grackles & several Starlings one of which whistled, chirped & chattered by turns for many minutes in succession. I had hoped for a heavy flight of Warblers during the past week but no such movement was taken place or at least manifested itself here since my return to Cambridge on the 21st.

It would be interesting to know where the flood of Orioles present yesterday came from. Nearly all of them must have passed on Southward last night.

Spent day partly in house, reaching to C., partly in Museum, copying Concord bird notes. At 5 P.M. called on the Fairchild's with aviator's letters which Sally had about & very affectionately. Spent evening with C. Reading war news & playing bridge.

An Indian Wood Pewee, evidently in our birdens, noticed by Sally today, Aug. 28.

Cambridge.

Ther Tuesday, Aug. 29, 1916 Wea
C. goes back to Williamstown Perfect.

Brilliantly clear & moderately cool with light W. wind

The Garden & its encompassing woods & thickets seemed to harbor only a few birds just after breakfast. Indeed I traversed all its divisions, including byways then with no meaning anything more than 3 or 4 Robins, a couple of Jays, 3 ad ♂ Goldfinches among the white sunflowers, an Oven bird & a Redstart in ♀ plumage, in the lilacs. Later in the forenoon the Robins increased to 10 or 12 & a Downy was heard, about 5 P.M. when the open space around the medicinal was filled with mellow light from the low westering Sun half a dozen Swifts appeared one at a time & almost as many Orioles, one an ad ♂, flew back & forth across it alighting in tall, dense, foliaged trees. There was also a young Magnolia Warbler, whose rich yellow plumage showed conspicuously as he flitted in full sunlight for a moment at edge of lilacs.

Another Warbler, in rich green, looked & acted like a Canadian but could not certainly be identified as such.

C. left me at 10.30 to motor into Boston where she took 1 P.M. train for Williamstown.

I walked on Concord road notes all day. Called at the Fairbanks 5.30 P.M. & later on Harry Spectors.

Cambridge-Boston-Concord.

Ther Wednesday, Aug. 30, 1916 Wea
Fine

Clear with light southerly wind. Warm thorough day, very cool on moon's eve.

Garden well-nigh barren of birds. At 7 a.m. I went through all the paths without seeing or hearing anything but an Oven bird & 2 Swifts. An hour later 4 Robins appeared in the green cherry tree & 2 coal Goldfinches among the sunflowers which a ♀ Minioptila was seen in Hubbard P.

To Boston at 10.30. 100 or more Herring Gulls, mostly imm., bedded off bridge. Went direct to our office, attended morning Greenfield Dictation there (11.30-12.30) Lunched at Marlston's & took 2.40 train to Concord where Gilbert met me. After reaching Farm I strolled about it with Jimmy. In Berry Pasture, towards sunset, saw or heard at least 8 Catbirds (5 together) a Crested Flycatcher, a Kingfisher at Pond, an ad ♂ Chestnut Side Warbler in what looked like worn breeding plumage, a Mary Gold Yellowthroat & 5 Swifts flying due S. high in air. Leaves emerald green, great stream of Phlox & Liriodendron, big saucer Anemones for display

Concord (Farm)

Ther Thursday, Aug. 31, 1916 Wea
Perfect.

Clear & warm with light S. W. breeze

Only a few birds noted - most of these near our house, 7-8 a.m., where & where a Crested Flycatcher, 2 Robins, 2 Cat-birds, a Nuthatch of each species, a Hairy & a Downy Woodpecker & a House Wren were seen and two Red-eyed Vireos heard singing rather contentedly & loud. Shortly after this I heard a Third Vireo in Pulpit Rock woods where it was apparently the only bird as was also a Robin in Birch Field, in mid-afternoon. Two Indigo birds & two Chippies in our corn field. A Kingfisher again perched at the Berry Pasture pond. Jimmy started a Partridge in the Run. Heard a Red Squirrel there but have not as yet seen a single Gray Squirrel any where.

Spent most of day in or near home copying my spring notes & weeding flower beds. Walked with Jim to Pulpit Rock at 8 a.m. to Birch Field at 4 P.M.

Concord (Farm & River)

Friday, Sept. 1, 1916 Wea
Up Concord River by boat. Perfect.

Weather like that of yesterday but a trifle cooler with fresher, more westerly wind.

2 adult Robins on lawn, 2 Cat-birds eating elder berries in down yard, House Wren singing feebly in lane, King bird calling near barn, 2 Chippies & 1 Indigo bird in corn pasture, 3 Sharp-shin Hawk flying low over Run, 7 Robins near barn, Swifts heard in parlor & dining room floor at evening. Canada Nuthatch, Puffin Blower 7 Kingfishers (3 together in two places), a Belted, a Night Heron & a Green Heron started along river banks between Ball's Hill & Platts Bridge. Black Duck flying low over Great Meadows, 10 a.m.

Crows only birds noted at Ball's Hill.

Moved to Ball's Hill 9 a.m. Foliage there thinned in places but nowhere stripped, by gypsy leaves. Vigorous young Chestnut by cabin landing badly infested by Chestnut casebearer. Noted for first time on my land. River boat round me up to Concord (9.15-10 a.m.) in small Mullins boat which we left at Boat Dock near Dr. Chamber's place to use. Several motored us back. Practically all aquatic vegetation in river has perished & disappeared. Murkily, lead colored water from May now, probably accounts for it. No fish pads & hardly any fish seen. A few small fish in rap. No black shiners.

Boncord (Farm)

Ther Saturday, Sept. 2, 1916 Wea
H. W. Henshaw arrives. Fine

Clear & cooler with rather fresh
westerly wind.

Continued scarcity of local birds
and almost total absence, apparently,
of migrants from further north.
At least eight Blue Jays screaming
long & loud in the trees at 2 P.M.,
probably mobbing something there.
They finally ceased the outcry &
flew past me, one after another,
to westward. Two Swifts flying
high & straight southward at 5 a.m.
I saw no others through day but after
dark heard one rumbling in one part
flew & another in diving from
flew.

Spent forenoon close about house
working with George, reaching flower beds etc.
After noon dinner walked with Jim to
the Spring via Pine Slope. Henry Henshaw
arrived soon after my return. We
went with Jimmy to Birch Field
just before sunset & spent evening
talking in porch & playing back.

Boncord (Farm)

Ther Sunday, Sept. 3, 1916 Wea
Young Tree Loads. Glorious

Brilliantly clear & almost frosty cool
with fresh N. W. wind.

Almost no birds seen or heard about
Farm to-day. In River met with 4
Chickadees, 2 ♂ Canada Nuthatches & an
adult ♂ Red-start, in Birch Field
with a Magnolia Warbler juv. & an
adult ♀ Black-throated Green followed
by a bob-tailed young bird still in
first plumage which she fed repeatedly.

The little artificial pond encircling the
big boulder in front of our house is
swarming with frogs mostly *R. clamitans*
of various sizes, one of which a Garter
Snake was swallowing two days ago.

There are also at least a dozen young
Tree Toads just changing from tadpole stage
with short remnants of tails. All are almost
totally bright yellowish green in tint
closely matching that of young lettuce leaves.
Henry & I walked to Ritchie place in
forenoon, to Davis Swamp in late afternoon.
Spent rest of day in house talking

Concord (Farm)

Ther Monday, Sept. 4, 1916

Wea

~~Summer~~, Cape May, Prairie & Bay Breast Ws. Fine

Clear & just agreeably warm with rather strong S. W. wind. Last night clear & cool.

Near house only 2 Cat birds feeding on elder berries & a Downy in dogyard elms.

In Pulpit Rock woods a small mixed flock including a young ♂ Bay Breast, several D. virens (1 ad ♂), a Solitary Vireo (singing freely), a Silver Headed Plover, a White Br. & a Canada Nuthatch.

In Birch Field at 11 A.M. a somewhat larger flock, feeding in tops of gray birches & among young white pines. These birds were tame & not restless, permitting me to identify every one of them positively.

There were a Tennessee Warbler, very green above, ashy white with no obvious tinge of yellow, breast; 3 Cape May Warblers all in sleek, silky ant. pl., one strongly yellow on breast & probably a ♀ juv. the other two ♀♀ one of which was sharply, the other only faintly streaked beneath on an ashy-white ground color; a Prairie Warbler in fresh ant. pl. with conspicuous blackish streaking beneath & in some like an ad. ♂, 2 Magnolia Ws, a young Black-jack, a ♀ Redstart, 8 Chiselbeaks & a Can. Nuthatch. Walked to Birch Field at 11 A.M., meeting Henry, then returning fr. Berwyn. We went then again in late P.M. when Jimmy started two broods of young Parula's. Glover & Mrs. Allen called at 4 P.M.

Concord (Farm)

Ther Tuesday, Sept. 5, 1916

Wea Dull.

Thin cloudy & cool with light N. E. wind.

The only birds noted near house were a Cat bird in elder bushes, 2 Purple Finches & 6 Goldfinches on wing, a Hairy W. in lane, a young Hummer with yellow, hollow-stained crown at flock in garden, a Great White Heron flying high, S.W. at 8 A.M.

In Pulpit Rock pine woods found a small mixed flock which included a Canada Nuthatch, a House Wren, a ♀ juv. Minioptila, a Tennessee, a Black-jack & several D. virens (2 ad ♂♂) a ♀ Redstart & a Silver young Head Plover. 6 Robins & 2 Nuthatches finished in Birch Field, a flock of 20 Bobolinks (mostly) & a single Song migrating high over it at 9 A.M.

Spent most of day working with George in flower gardens at rear of house. Walked to Birch Field with Jimmy at 9 A.M. Henry & Henshaw returned to Wellesley to see his sister in lawman & went to Berwyn field to practice golf in afternoon. Rifer Junco, Strawberry & Bay Breasted warblers.

Concord (Farm)

Ther Wednesday, Sept. 6, 1916 Wea
Flock of Cape May Warblers. Stormy

Dark cloudy & somewhat foggy. Raining all forenoon, at times heavily. One brisk shower in P.M. Light N.E. wind. Rather warm. Shortly after breakfast met with a flock of Cape May Warblers in our lane. First noticed them in an apple tree where six were seen at once, five together on one low branch. Others flitting about further off at same time. Perhaps as many as 10 or 12 in all. An Oven bird & a Red eye V. the only other birds then south or near them. I saw, certainly, only 2 ♂♂, one juv., the other a very handsome adult. They all flitted before me along lanes (lingering oftenest in its red cedars), & our driveway where they remained more than an hour. in clus, locusts etc. Found them, in apple orchard behind house at 3 P.M. With

these there were a ♀ Redstart, 2 D. virens & a Red eye V. feeding young and bird. Found Cat birds & a Grosbeak. Thrushes spent entire day in cedar bushes near bird bath, flitting on their Cape fruit. The Thrush, resembling flitted off the berries while on wing like a Trogon. He was found in late P.M. by a large typical Allen's Thrush whom he repeatedly drove away. A Flicker also came to a lot of the cedar berries.

Spent most of day in house with Henry, walked to Birch Field twice. A Yellow throat W. & 3 Canada. Myiozetetes there. Two Cat birds only birds seen in Berry Patch (4 P.M.)

Concord (Farm, River & Ball's Hill)

Many big birds seen along river. Gr. Blue Herons
 Ther Thursday, Sept. 7, 1916 Wea
Wood & Black D. wells, Goshawks etc. Mixed.

Early morn. cloudy & densely foggy. Forenoon & afternoon partly sunny partly cloudy. Calm & very sultry. Light shower in late P.M. Cicadas "singing" everywhere all day long. Another cricket after dark, near house.

Leaving farm at 8.45 A.M., Henry & I motored to Concord where we rowed down river to Ball's Hill (9-11 A.M.). During this trip we saw a surprising number & variety of large & interesting birds, including 8 Black Ducks, flushed from "Hunters Pond" & 3 Wood Ducks from cove near Ball's Hill; a large ♂ of Goshawk, flying over "Hunters Pond"; 2 Red. shouldered Hawks, soaring & screaming wildly over Great Meadows; 3 Great Blue Herons (one ad, two young) and 2 Green Herons, all of which rose from the river banks & most of which were seen swimming there before they flew; 2 Night Hens, both im., started from leafy trees just above the Holt; a Solitary Sandpiper; 5 Kingfishers & scattered singly. Only a few small birds including 2 Water Thrushes - nothing of interest in woods at Ball's Hill.

Found 8 Red. Osprey in Tisbury Hill thicket, found a farm house, 8 A.M. Large mixed flock in Hunters Park at noon included 3 ad ♂♂ & 1 ♀ of Redstarts, a juv. Chestnut sided W. Wren, D. virens, 2 Red-eyes, 6 or 8 Chickadees. But after Gray Squirrels at 4 P.M. Saw only one & failed to get him.

In Cape May, I secured very good for Warblers & were mostly in fruit. Very still, birds

Concord (Farm) - Carlisle.

Ther

Friday, Sept. 8, 1916

Wear
Fine

Hot, humid, well-nigh windless. Allegedly a very trying day, scarce less so indeed than the worst of those during the past exceptionally warm & sultry summer. Evening cooler with distant thunder.

Comparatively few birds about our farm house. Five Cat birds eating elder berries, several Goldfinches, old & young, calling among blue flowers at head of lawn.

"Jimmy" & I went to Pulpit Rock woods about 10 A.M. The only bird I saw or heard there was an adult ♂ Scarlet Tanager flitting restlessly through dead brown branches of a pine, in full sunlight. Altho in apparently almost completed fresh autumnal plumage he had a broad patch of scarlet on either side of breast opposite shoulders / & a smother one on abdomen. Whole elsewhere save for jet black wings & tail - he was colored canary yellow, deepest on back but nearer approaching the usual forest green. I have one or two Spring ♂♂ similarly colored but do not recall one being such a bird in autumnal plumage before.

Spent most of day in home working. Henry & I motored in Lake Umbagog, to Carlisle where I saw Japh. We also called on Decker but he had gone to Boston. Six young Partridge seen in road side at Summit.

Concord (Farm)

Heavy flight of Black-jack Warblers.

Ther

Saturday, Sept. 9, 1916

Wear

Cape May juv. ♀, Blackburnian do. Fine

Brilliantly clear with breeze, cool N.W. wind.

Very many Warblers close about our house at 7 A.M. They were so restless & kept so high on tall elms & other trees that I failed to identify any of them before all departed. Two hours later I met with what may have been the same flock, in Pulpit Rock woods. It comprised upwards of 50 birds at least 40 of which were Black-jacks. Besides these I certainly recognized half a dozen D. berms, one Bay-breast (♀ juv. showing no bay on flanks), a Cape May (♀ juv. very pale & dull colored, with obscure dark streaking on under parts), a Blackburnian (♀ juv. without yellow on throat & almost uniformly grayish white beneath), a ♀ Minioptila, a ♂ juv. Magnolia Warbler & a ~~Reinhold~~ C. C. All these birds fed mostly in white pines. They were not restless & in the clear pure sunlight I identified almost all of them without much difficulty. Only a few Black-jacks in Peach-Tree & Elm trees. 3 Cat birds & 2 Goldfinches above was downy with.

Spent most of A.M. with the Warbler flock. Mr. & Mrs. Darling called in mid. P.M. Henry motored to Concord for a game of golf with Dexter & brought him back to Supper with us.

Concord (Farm)

Ther Sunday, Sept. 10, 1916 Wea
Large flock of Partridges. Perfect.

Brilliantly clear with light easterly wind. Cool at morn & eve, warm through mid day hours.

No signs of any autumn coloring as yet.

Very few small birds & almost no migrating ones. 2 Black-jacks the only ones obviously coming from further north. A Screech Owl circling low & Bobolinks heard twice 8-9 A.M.

A Sparrow hawk flying high S. at 4 P.M.

Shortly after breakfast Henry & I were strolling along wood road on south side of run near Pulpit Rock when "Tim" flushed at least 18 Partridges, mostly young about 2/3 grown, from within a brush grown area only a few yards square. A dozen or more birds rose all at once like so many shot. The others followed singly in quick succession. At 4 P.M. we started 7 or 8 in nearly the same place.

Except for these two walks we spent most of day in house reading & talking. No calls.

Concord (Farm)

Ther Monday, Sept. 11, 1916 Wea
Almost no migrants passing Superb.

Brilliantly clear with little or no wind save early morn & then a light breeze from eastward. Very cool almost frosty, over night & again this evening but agreeably warm with Cicadas "frying" through day. Many field crickets chirping by day & a few tree crickets at night. No autumnal calling of Hylas as yet. Glorious light from nearly full moon shining in cloudless sky last night & this.

Despite such perfect autumnal weather & calm, cool, moonlit nights especially favorable in every respect for migration of small woodland birds I have failed to hear any of their passing overhead since the night of the 5th when very many were flying S. toward about 10 P.M. There were, almost none to be found in our woods yesterday & no more to-day when I noted only 2 black jacks & nothing else likely to have come from the northward save a ♀ House Wren.

Early started to Wellbury in forenoon when Jimmy & I spent two hours in the ponds looking for any thing of much interest. Henry & I were out with him again in late P.M. when he took a "gray" in walks by spring & I shot it. Found 2 persons dog-walked together near Pulpit Rock.

Concord (Farm & Ball's Hill)

Ther Tuesday, Sept. 12, 1916 Wea
Migrants from N. scarce than ever. Fine

Clear & warm with fresh southerly breeze. Grass drenched with dew over night, lasting through day, also, in well shaded places.

Almost no small birds & literally not one obviously from further north, to be found at our Farm or in its bordering woodlands. First juncos of the season flushed from Benson's asparagus bed.

8 or 10 Chickadees in birches oaks & pines at rear of Ball's Hill were accompanied by an House Wren & juv, a young Blackpoll & 2 D. virens. Two or three Warblers, perhaps the same as those just mentioned, heard chirping near cabin later in day.

At 9 a.m. a Great Blue Heron flew low over Pine Pond, from 11.30 to 12 there was one perched in a dead oak across the river,

at 12.30 one flew up stream past cabin, only a yard or two above the water. Kingfisher rattling near cabin & Red-throated Hawk seen near some Great Horned Owl.

Spent most of day at Ball's Hill, doing there, Bushbuck & George captivating many birds & other subjects. Killed a lot of driftwood & other rubbish. Worked down with Henry & made back in wagon

Concord (Farm)

Samuel. Henshaw & Ostrum Bangs & in Deter, call.
Ther Wednesday, Sept. 13, 1916 Wea
Another flight of migrants from N. Perfect

Clear & warmer still. Light S.W. wind.

Warblers & other small birds coming from regions further north appeared here rather numerous today not in large flocks but scattered about in small ones or singly, almost everywhere. A Wilson's Black-cap (& juv) flitting about in Torrey's thicket in front of house (at 7 a.m.), a & Cape May, a Canadian Warbler & a & juv House Wren, a young Myrtle Warbler in first plumage (dark streaked so thickly & profusely that it looked very like a Pine Siskin), several Blackpolls & D. virens, a Towhee, a Hermit Thrush & a Tanagra, eight or more Chickadees & a couple of Robins were all seen in Birch Field where the Warblers were feeding mostly in gray beeches, the Cape May, however, keeping chiefly in pine pines. Great Blue Heron fly very over our apple orchard just above tree tops, 9 a.m.

Henry went to Boston this morning, - Jimmy & I to Great Neck where I spent an hour or more identifying my Warblers. The whole D. after fairly calm down at 2.30 P.M. We went to Birch Field. Sam Henshaw & Ostrum Bangs found us there at 3.30, Henry about 4. They stayed until 6.30

Concord (Farm)

Ther Thursday, Sept. 14, 1916 Wea Perfect.

Clear, calm, intensely warm but not over humid; altogether a rarely beautiful day of mid-summer type, with Cicadas emphasizing the fact by ceaseless shrilling. Heard autumnal calling of Pickering's Wrens for first time this year.

Only a few migrants from further north (I heard many passing over at 10 P. M. last night) and these scattered widely either singly or no more than half a dozen together. In Birch Field & feeding in gray birches, doublets & Cephidae (not numerous this autumn) were 3 young House Wrenches with 2 Yellow-rumps & several Chickadees; in Run near Pulpit R. were 4 or 5 Black-jacks, a ♀ Black-chinned Blue & 2 unidentified Thrushes that looked like Oliv. Siskins; in front of house 4 Juncos, a Peewee bird, 2 Cat birds & a very young Hummer with feeble flight who came to an Aster blossom over which George & I were standing (and I found there for half a minute with me 6 birds of 5 species). A Marsh Hawk & a Hawk (Shrike?) & a Swift passed over open in front of house. Spent most of day in or near house. Heard & I walked to Birch Field 8.30-9.30 AM. (I went to 1.1 for 904 in P.M.)

Concord (Farm)

Ther Friday, Sept. 15, 1916 Wea Rainy
A Deer in front of Bungalow

Mostly dark cloudy with strong S.W. wind and exceedingly heavy showers following one another in endless succession at brief intervals. Few of them lasted more than half an hour & apt towards sunset when there was continuous downpour for upwards of an hour. Altogether a rather gloomy and also uncomfortable day for the air was oppressively warm & humid.

Very few birds within sight or hearing of our house, in or near which I spent most of day. One or two Cat birds mewing in the front yard, a Thrasher, a Song Sparrow on the bird bath, a Grosbeak chattering in care, a downy Crow flying westward in straggling order at evening, as if towards some roosting place. Jimmy & I visited Pine Park & the Run just after breakfast without finding anything there, or along the bank save two or three White-throats & one House Wren that chirped like a Black-poll.

Henry & Gilbert gone all day motoring to Cambridge & Wethersby. Mrs. Breckin saw a yearling buck by the well back in front of Bungalow at 6.4.11.

Concord (Farm)

Ther Saturday, Sept. 16, 1916 Wea
Warblers mig. at 6 P. M. Fair

Partly cloudy, mostly sunny. Cool northwesterly wind but very warm when it did not reach.

Only a very few birds. In Birch Field 4 Black-polls, a Bay breast (juv. ♂ showing a little chestnut on flank) and an Owl bird (heavily streaked breast) together in one place among gray birches, 3 D. Vireos in another, a Brown Creeper, a Canada Nuthatch, Purple Finch (hd), Cedar Bird (hd), Partridge (faded), In Cedar Park several Warblers heard chirping (like Black-polls) and a juv. ♂ Redstart (larger than ♀ with more & richer yellow) seen. Noisy jays seen or heard in very many places, several engaged in breaking off & dropping acorns in large white oak near Bengatons.

Close about house noted only a Swift flying low north at 8 a.m., a tailless young Cat bird, and a ♀ White Bel. Nuthatch which at 2 P. M. entered woodpecker hole in elm by our road then reemerged. Several small birds. Walked to Birch Field with Henry at 9 a.m. & again at 4 P. M. Spent most of day walking near house, transplanting tomatoes, picking strawberry (ball growing) plants in the garden. Mrs. walking after.

Concord (Farm & Ball's Hill)

Ther Sunday, Sept. 17, 1916 Wea
Perfect

Cloudless with light, cool easterly to southerly breeze. Delicately warm (an autumnal, rather than summer-like, warmth) through most of day but almost frostily cold last night.

Rather many birds so widely scattered that not many could be found in any one place. A young ♂ Cape May Warbler with entire under parts dull yellow obscurely streaked with dusky in very same cluster of white pines in Birch Field where ♀ was seen on 13th. This bird distinctly tawny & shaggy. 4 Yellowthroats with it & a dozen or more others noted elsewhere. Only 1 Black-poll. 2 D. Vireos. 4 Canada Nuthatches, 3 of them together cackling from buds on Pin. trees. Together, 2 Cat birds, 4 Chiffins, several White-throats & a Red-eye in the white birches along dooryard at Farm. Several Phoebe in locust from a house at 8 a.m., another in full continuous song in Howard's meadow at noon. Fish Hawk flying low south of meadow & very high in air it looked no bigger than Seabird jays circling, screaming in easterly. Counted 37 Snow Frogs in pond in day yard. Henry & I walked to Ball's Hill via Davis then & back via Holden Hill, 9-12 and Automobile party finally cold grapes in Berry P. in P. M. Saw them from road & then at Ball's Hill. F. Boeris called at 5 P. M. staying about an hour.

Concord (Farm)

Ther. Monday, Sept. 18, 1916 Wea.
Flock of Carolina Doves. Time

Sunny & warm with light S.W. breeze.
Clouds gathering at sunset & brisk
thunder shower at 8 P.M.

Not many south-bound migrants. A
small flock of them feeding in gray birches
at sunset, in Birch Field, included 5 or 6
Yellowthroats, 3 Blackpolls, 2 Doves &
a Redstart in ♀ plumage.

Flushed 10 Carolina Doves from a sandy
open knoll in Birch Field at 9 A.M.

Eight of them rose together from a space
only a few yards square, with so many swirls,
for which I mistook them at first as their
wings made a loud whirring sound but this
was quickly succeeded by their usual silvery
whistle. The other two birds rose apart from
the rest a second later. All went off
towards Green Field, two returning after a while.

One with Jimmy & the 20g. gun at 8
A.M. & 4 P.M. On each occasion he tried
a Gray Squirrel and 2 that is - to his
intense joy, of course. Gray Squirrels seem
to be rising and inflicting some discomfort.

These shooting are now made in early
morn. Season opened on Saturday, but
doubt & Sept. 1st was a day of heavy
morning letters. Gilbert went to Concord, Henry to North

Concord (Farm)

Ther. Tuesday, Sept. 19, 1916 Wea.
Time

Cloudless with light N.W. wind. Rather
warm through day; cool at evening.

About farm house only a few birds - one
Catbird (juv.), then Flickers together in oak,
a W. Bellied Nuthatch & a Brown Creeper in
elms, a White-throat calling in Laurels, seven
Crows on wing, a ♂ Sharp-shin Hawk
flying high eastward at noon, Jays
screaming now & then.

Ranging about through Birch Field &
Pulpit Rock woods was a mixed flock
comprising about 30 birds & including,
besides Chickadees & a Canada Nuthatch,
8 or 10 Yellowthroats, 4 or 5 Blackpolls,
was heard like a juv. ♂ Bay-Breast,
a Minutella (♂ juv.), a Redstart in ♀
plumage. Heard a Towhee three or
four times.

Gilbert returned from Cambridge
in forenoon. He mistook Harry to
Wellsby in afternoon. Jimmy & I
visited Birch Field twice 9-10 A.M.,
4-5 P.M. Pat & Harris called in
forenoon.

Concord (Farm)

Ther Wednesday, Sept. 20, 1916 Wea
Fine

Clear & warm with high westerly wind. Almost frostily cool last night. Marked scarcity of passing migrants. Those met with scattered widely. They included several Yellow-rumps, 2 or 3 Black-polls, a Magnolia Warbler (heard in Birch Field), a Minster (on elm trunk in dooryard), 4 Juncos, 1 White-throated. About 8 a.m. a ♂ Sharp-shinned Hawk skimmed low past me in Birch Field. Shortly afterwards I was standing motionless in a little opening when a young bird of same sex, presumably self, came in individual, alighted in a birch about on a level with my face & within 8 ft. of me. I shot but missed him when, a moment later, he dashed off. Through the trees, saw a ♀ Sharp-shin circling over him & shot a Gray Squirrel in tall oak, on way back to farm house. Flushed an old cock Partridge in Birch Field & a brood of 8 or 10 small young in Big Pasture. Two Towhees near Birch shed. Two Catbirds (juv) at house, one of them self-imprisoned in room where bats abide in shed loft. A mouse has entered at by a narrow opening over door, as the bats do.

To Birch Field again, with Henry at 4 P.M. A brood of birds flying. Country flooded with song in forenoon. But, I seldom collect at 3 P.M.

Concord (Farm)

Ther Thursday, Sept. 21, 1916 Wea
Only one bat left in shed loft Perfect.

Cloudless, warm, light S. W. wind. Yellow Butterflies (Clouded Sulphurs) by scores in every grass field spangled with hawkweed blossoms. Tree Cucklets chirping all day long in densely shaded places & everywhere at nightfall.

Heavy firing in some meadows distinctly heard at Farm & lasting from sunrise to 9 a.m. many darker reports. This strong presumption evidence that Snipe were there in considerable numbers.

A good mixed flock of small birds in Big Pasture (shot at 7 a.m. Henry & Clifford and I went out, a Catbird & White-throated. I saw a Phoebe, a Cowbird, a Tit, & 4 Goldfinches, a little later.

Visiting Birch Field at 8.30 a.m. I found it almost devoid of bird life but when Henry & I went there at 4 P.M. we encountered a mixed flock of about 20 birds including 4 or 5 Yellow-rumps, 3 or 4 Black-polls, an House Wren, Chickadee, Cowbird, Redstart etc.

Spent most of day in front of house where Harris was trapped & George dug a trench around pond. He developed 4 larks. Henry went to Concord & Boston Saturday 4 P.M.

Concord (Farm)

Ther Friday, Sept. 22, 1916 Wea
Winter Wren. Time

Early morn calm, cloudy & foggy.
Sunny & warm with light southerly
wind through remainder of day.

Very few birds & then mostly in
thickets close to house where I noted
a dozen or more White-throats, 3 Towhees
& 2 Indigo birds in brown plumage.

During a morning (8-9 A.M.) walk, with
Tracy, to Birch Field I found the
woods almost lifeless save for the
presence of Audubon Jays, screaming
incessantly, far & near. Henry & I had
much the same experience in late P.M.
when, however, we heard a Winter Wren's
tee-tee notes repeated many times in
the Run at its head, close to the road,
an old cock Partridge drummed at
regular, normal intervals 4-4:30 P.M.

Spent most of day superintending
men working at renovation of little pond
in front of house. Picked 2 quarts of
strawberries & also some peaches & plums, to
send to Lancaster to mother.

Henry returned to Woburn in A.M.

Concord (Farm)

Ther Saturday, Sept. 23, 1916 Wea
Fair

Early morning sunny with cool east
wind. Most of forenoon cloudy with a
light sprinkle of rain. Afternoon clear
and very warm with fresh S.W. wind.

Still fewer birds. In thickets about our
dooryard 2 young Catbirds, 2 Towhees &
7 or 8 White-throated Sparrows. Spent the
entire day. Very many Blue jays screaming,
especially at noon & eve. They visited
our standing corn & some of the larger
oaks near foot of lane, at frequent
intervals. There was also at least one
Rusty Blackbird in or near the corn.
I neither saw nor heard a Screech
of any kind.

Spent most of day close about our
house where Harris & his helper worked.
Through forenoon & long until 5 P.M.
Gilbert returned to Lancaster in A.M.

Taking apples, peaches, plums & 2 quarts of
strawberries (C.C. Tracy came with him).
Henry went to Cambridge returning at 4 P.M.
with Norton. The latter called about the 7 o'clock
& the woodlands with me in late P.M.

Concord (Farm)

Ther Sunday, Sept. 24, 1916 Wea
50° Partridge killed by Fox. Fine.

Clear & cool with fresh N.W. wind.
Ashes about as this week. Golden Rod
mostly past its prime. Poison
ivy reddening fast. Only a few
maple leaves turned as yet.

Almost no birds. 2 Cat birds & 3
fish. Thrushes in front of house, 2
Robins in cave, 2 Towhees by bird
bath, 6+ Yellow-rumps, a T. Wren,
a Junco & a Hairy W. in Birch T.
Started an old cock Partridge there &
another in Berry Pasture. In latter
at foot of young white pine found
remains of young hen Partridge which
a Fox had evidently caught, devoured
by night when she was rasping low
in the pine. Just beneath it were many
of her body feathers, both legs with
long bones & adorning flesh entire, whole as
whole young squirrel near body, lay a few
yards off. The carcass lay beside one of
the legs. I have never before known a Fox
to leave all these bones & any bird.
In Birch Field with 2 Juncos in forenoon,
through Berry Pasture with Hairy & 2 Juncos
in late P.M. finding others at other houses.

Concord (Farm)

Ther Monday, Sept. 25, 1916 Wea
Fair

Sunny & cloudy by turns. High, cold
northerly wind. Warm in sheltered places
through most of day.

Poison ivy foliage ablaze on many an
old stone wall. Maples still summer-like in
general aspect but a few showing reddening.

Mixed flock of about 30 small birds, evidently
freshly arrived from further north, feeding in
tops of gray birches & among outer branches of
large oaks bordering on Cedar Park, at 8.30 A.M.
Watched them for many minutes possibly
identifying Cape May Warbler, ♂ ad, very yellow
over entire under parts with conspicuous dark
(blackish) streaking on breast & sides (a handsome
bird rather more active than most); 2
Hens Warblers, ♂ & juv; 1 Black-poll, ♂ or 10
Yellow-rumps; Scarlet Tanager ♂ ad, jet
black wings & tail, rich yellow beneath, red
scarlet feathers. Showing very richly; Redstart
In Birch Field several Yellow-rumps, a Canada Warbler, a Purple Finch.
singing freely but persistently, a Bobwhite
heard calling but unseen.
Near house, a Song Sparrow, 2 Cat birds,
2 Robins, 12 Chaffers, a House Wren, 10
In Birch Field about at 8.30 A.M. &
again with Hairy at 4 P.M. Spent much of
day in house mostly letters

Concord / Farm
Heavy flight of warblers.

Ther Tuesday, Sept. 26, 1916 Wea
42° min. 2 Cape May, 1 W. Palm.
7 with Ruby, Crown & Pine Linnet Superb

Brilliantly clear & bracingly cool with
fresh north-west wind.

Brick Field teeming with migrant birds
just arrived from further north. Distributed
everywhere throughout its gray brick & white
pierre thickets there must have been upwards of
70 or 80 altogether. About half that number
kept together in a loose flock drifting to & fro
through the easterly part of the "field" & feeding
mostly in birches. These I reviewed rather

carefully in forenoon & again in late P.M.
when Henry & Dexter came with me. It was
an interesting & varied assembly comprising
2 Cape May, 2 Warblers & 2 juv., 3 W. Palm, 2 juv.
(one contained very yellow breast), a Magnolia,
2 Minstrelles, several D. Vireos (one dead),
4 Black. birds, 12 or 14 Yellow-rumps, a Palm
Warbler (western form, without yellow on throat &
only faintly yellowish elsewhere beneath), a Ruby-
crown Kinglet (large, rather dark, 9 a.m.), a
Canada Flycatcher, a Pine Linnet (light colored),
a Geothlypis Thrush, 6 Juncos, 3 Song Sparrows,
2 Red-shouldered Hawks (one singing loudly
in air overhead), Kingfisher flying over.

Near house a Catbird, several White Throats,
about 10 Chipping.

Spent most of day with the birds in
Brick Field. Here, Melvyn, Mrs. & Miss Robbins
called at 3 P.M.

Had a note from Dorothy at 5 P.M.
Spend finger of left hand. Dr. Wentworth
sent for. He faintly exploded Tom Cigarette.

Concord / Farm R. H. Dana
arrives.
Nocturnal flight of warblers.

Ther Wednesday, Sept. 27, 1916 Wea
Skunk destroys Horner's paper nest. Fair

Partly cloudy, mostly sunny; oppressively
warm & humid. Altogether a summer-like
day. Many Dragon Flies & hosts of Yellow
Butterflies on wing over grass fields & gardens.

Warblers migrating at 10 P.M. in rather
large numbers, to judge by their hissing calls.
Not very many came under my notice by day &
these were mostly Yellow-rumps of which I
found a small flock in Cedar Park & another in
Brick Field. Henry met with a rather large
flock near Berding's. It included a Tanager & a
Sapsucker & juv., another Sapsucker, also & juv.,
very pale with no red showing on head, spent
day in our cherry yard & then along lawn
while at our noon meal we saw a typical, large
Alice's Thrush coming from the Forsythia Hedge
& hop about over the bordering lawn in full daylight.

A paper Horner's nest as big as a fresh basket,
in a current bush close to ground, in our
garden was intact at sunset last eve. but
this morning almost completely demolished with
pieces of comb strewn about over ground paddled
with tracks of a Skunk who had also left several
little heaps of fresh excrement there.

To Brick Field at 9 a.m. with Henry & again
at 3 P.M. Dr. H. Dana & his niece
Rosalind Wade arrived at 4 P.M. He spent
supper with us, she went to the Colonial.

We sat up late talking of many things

Concord (Tama)

Thursday, Sept. 28, 1916

Wea
Perfect.

Brilliantly clear with strong S.W. wind.
Almost as summerish as yesterday
but less warm & much less humid.

Two mixed flocks in Birch Field, both
mostly made up of Yellow-rumps. One
included, also, 2 House Wrens, 5 or 6
D. virens, several Black-jacks & Chickadees,
a Ruby-crown Kinglet & one or two
juncos. As Henry & I were watching these
birds (at 9.30 a.m.) three Red-shouldered
Hawks (one ad. 2 juvs), that had been
screaming long & loud in oaks near the
Spring, came soaring over us in company,
displaying all manner of graceful curves &
other evolutions. One passed close enough to have
been brought down with a chirp of honey that.
2 Cat-birds & a Cowbird, most of probably
birds frequent our dooryard shrubbery all day.
A night hawk & passed high overhead at
sunset, meandering towards South-west.

Dick Dana left us at 9 a.m. Henry
went to Benson's pasture a little later. I
accompany him as far as Birch Field.
We visit a game in late P.M.

I spent most of day mostly in work on
personal & family birds in home & garden.

Concord - Boston

Friday, Sept. 29, 1916

Wea

19 Ther
79°

Clear & very warm with fresh
south-west wind.

Henry & I went to Boston by 8.07
a.m. train returning by 2.40 P.M.
Train. The woodland along our
route was blazing with vivid autumnal
coloring in many places especially
where maple swamps stretched far
& wide. I spent most of forenoon
in our office, signing a lot of
quarterly botanical cheques, writing a
few letters etc. I also visited
Follen, Fisher & Rawson's to order
bulbs for winter forcing of which
some \$45. worth were selected.
Also had my hair cut. Henry &
I dined at Marston's. Saw Arthur
at office. He starts for Maine wood
soon. I left with Henry & me at
Concord, Jimmy with him on front
seat of car as usual. Harris, his
helpful & Japhet accompanying under firing of gun.

Concord (Farm)

Mr. & Mrs. Robbins

Ther

Saturday, Sept. 30, 1916

Wea

Aurora borealis

Fine

Brilliantly clear with strong N.W. wind. Cool through day, almost frosty by 8 P.M. when the northern sky was ablaze with the search-light rays of the finest display of Aurora borealis I have ever witnessed in this latitude.

Bird Field teeming with Yellow-rumps at 9 a.m. Not less than 30 of them there, mostly in two flocks. Not nearly so many in mid-afternoon. Both there we saw a juv. Chestnut-backed Warbler, at least 4 Black-poll, & 3 or 4 D. virens. In our dooryard or along the neighboring lane were 4 or 5 Robins, twelve or many White-throats, a Phoebe, a Towhee, a Cat-bird & a Savannah Thrush. Saw another Swallow & a large typical *Alcedo* in Bird Field. In Cedar Park found another a Hawk had downed one of my white Horned Pigeons having over a pile of its feathers & the upper part of skull & wings the eyes but with part of cervical vertebrae attached. A House Finch & another warbler, which bird had apparently fed on the oranges down under the tree near Peach Orchard.

It was doubtless struck first when on wing. Spent most of day superintending work in house in front of house. Henry getting on Robins in a.m. & N. I visited Bird Field with Mr. & Mrs. A. C. Robbins there saw a Northern Oriole at 8:30 P.M.

Concord (Farm), H.W. Henshaw departs.

Ther

Sunday, Oct. 1, 1916

Wea

36°. Heavy flight of Yellow-rumps.

Glorious

Brilliantly clear with strong N.W. wind which abated gradually this day & ceased wholly at nightfall. Air crisp & very cool.

Warblers migrating overhead in considerable numbers at 10 P.M. last night. Bird Field swarming with them this forenoon. Nearly all were Yellow-rumps. Among these, however, I saw a ♀ Black-throated Blue & one Black-poll. Both on near there saw a Ruby-crown Kinglet, 2 Gold-croets, Chickadees, a Mistletoe of both kinds, a ♂ Downy, a Hermit Thrush, a down on near junco, Henry saw an adult ♂ Sharp-shinned Hawk gliding low through bird corner. A ♀ Red-wing Blackbird flew low over us there, showing her striped underparts distinctly. Comparatively few Jays now. They have decreased steadily of late. In Cedar Lane 6 or 7 Robins, a Gray-checked Thrush, 12+ White-throats, a ♀ juv. Sparrow Tanager softly on trunk of elm. A Phoebe by barn corner, a Song Sparrow in front of house. Henry & I took our last walk together to Bird Field in mid-forenoon. He left me just after dinner & returned to Andoverdale to catch a few for W. Co. - my job. I went again to Bird Field with Henry at sunset.

Concord (Farm)

Ther
36

Monday, Oct. 2, 1916
2 Cape May Warblers.

Wea
Perfect.

Brilliantly clear & wholly cloudless with light N.E. wind. Fields white with hoar frost in early morn. Mid-day hours very warm with Cicadas flying, Hylas calling & many Butterflies on wing. Altogether a rare autumnal day of "weather breeder" type, however.

Rather heavy flight of juncos. At least 25 in our orchard & half as many more in Birch Field. Not many Warblers. In fact I met with scarcely more than a dozen & these all together on northern edge of Birch Field, feeding mostly in upper branches of tall oaks, bathed in sunlight, at 4 P.M.

The flock included 8 or 10 Yellow Rumps, a 1 black-thr. Blue, a Palm Warbler too common for true palm-wrens & scarce enough for hygrochrysa. There were also 2 Cape May Warblers which I watched for half an hour. They kept high in the oaks feeding busily but behaved sluggishly as compared with the rest. One, with entire under parts nearly yellow sharply streaked with blackish & showing brownish above neck, was evidently an adult ♂. The other, somewhat paler yellow beneath & less pronounced streaking, a young ♂. Both had yellowish yellow wings.

Spent most of day in house working letters. In Birch Field at 4 P.M. with "Young" who caught & killed a pair of little Chippingmice. Went twice to Perry Pk. where Thomson & his two men were digging ditches.

Concord (Farm)

Ther

Tuesday, Oct. 3, 1916

Wea
Sunny.

Cloudless with light easterly wind. More heat-frost at sunrise but deliciously warm throughout most of day.

At least 25 white-throats, a few juncos, 2 Chipping, 2 Towhees, 5 Robins, 2 or 3 Cat-birds, a Song Sparrow & a Goldfinch spent day in or near our dooryard shrubbery. I later found one of two Cat-birds again in the same place & liberated it.

Dexter came down to dine with me.

At 3 P.M. we went to Birch Field & found assembled there, in the same place as yesterday upwards of 25 small birds. Of these we identified several Chickadees, 2 Canada Tit-

natives, a Ruby Crown & a Gold-Crest, a Solitary Lark (singing brokenly), an Heron Warbler, about 15 Yellow Rumps, 2 Cape Mays & a D. Vireo. Thus the composition of the flock was unlike that seen here yesterday but the Cape May Warblers may have been in soft focus although I doubt it. Both were decidedly ♂♂, one ad., one juv. They frequented mostly the very same tall oak in which the two were seen yesterday. One perched motionless on a dead twig for fully 5 minutes. I heard the other give the "Tsi-Tsi-Tsi" call. A hawk which we both felt almost sure was a full Goshawk flew high over the field in a straight course southward. Several times a large Gray Squirrel took to the trees. We saw one Rabbit & a few other small mammals. Norton came down at sundown bringing my plants of claret Geranium for me.

Concord (Farm)

Ther Wednesday, Oct. 4, 1916 Wea
70° max. Fair.

A warm & perfectly windless day, the sun shining feebly & intermittently thro' thin, fleecy clouds that more or less obscured the sky.

A vile, grippy cold which began to manifest itself on Monday had so developed this morning that I had half a mind to stay in bed - but did not although my walks abroad were confined to the neighborhood of the house with the exception of one that extended to the

Berry Pasture where Mowson & his helpers
were digging a ditch in the forenoon.
In the afternoon I set five more to husking
& harvesting yellow corn of which they got
35 bushels. Hattie & her men finished
cementing the pond. George graded flower
bed front of house with lifted beam.
I saw no birds save in & close about our
dooryard where 3 Cat-birds, 2 Robins, 2
Juncos, 2 Chaffins & several Yellow-rumps
appeared & conspicuous at frequent intervals.
Little interest to Lawrence in all
taking strawberries & other things to C.

Boneard Farm,

Ther 70° Thursday, Oct. 5, 1916 Wea Fine
Antarctic coloring

Cloudless, windless, delightfully warm.
 Altogether a perfect Indian summer day.
 Autumn coloring brilliant here & there but
 is generally as yet. Many brown, heaps
 turning, others still green. Sumachs, including
 poison ivy & dogwood, frost their best.
 Golden rod mostly out of flower (except
S. canadensis). *Aster novae-angliae* & *Aster* still
 making a glorious display along our lane.

The dooryard shrubbery swarming with birds all day. Most of them White-throats & juncos with 4 Robins, 3 Cat-birds, a Song Sparrow, 2 Towhees & a few Yellow-rumps. A White-bellied Nuthatch in chess. 6 Jays eating acorns in Scarlet oak. Bluebirds calling in early morning. Dasher reports a Tennessee Warbler in his grounds. Also a heavy flight of Yellow-rumps in village. Spent most of day in & close about house with man in Berry Pasture much of forenoon, getting broods, debarking etc. as they were. Catch better but still troublesome. Harris working on underpinning of house.

Concord (Farm)

Ther
80°

Friday, Oct. 6, 1916

Wea
7 in

Sunny with light S.W. wind. Clouds gathering in late P.M. Warm at noon & am, uncomfortably so through mid-day hours. Hylas calling incessantly, but no Cicadas.

Conspicuously few birds. Evidently no flight passing to that of yesterday & the day before, past. Four Robins, 2 Cat-birds, about a dozen White-throats & a flock of 15 Goldfinches haunting dogyard & shrubbery.

Visiting Birch Field at 4 P.M. I found there 4 Yellow-rumps; feeding in birches & saw 7 more, very high in air, trailing after 2 Bluebirds flying northward.

A few Chickadees & 3 Partridge flushed from Pulpit Rock were the only other birds noted during this walk.

Maple foliage & that of Sassafras reaching its maximum brilliancy & already past it with some trees, Hickories fast turning old gold & beeches yellowing, also.

Spent most of day in front of house with Bencher, planting trees etc.

Mrs. Malcom called at 10 a.m.

Concord (Farm & village)

Ther

Saturday, Oct. 7, 1916

Wea

variable. Chickadees. White-crown Sparrows. Purple

Cloudless & well nigh windless save for an occasional breath of light easterly breeze. Just agreeably warm all day. Maple & Sassafras foliage ablaze with gorgeous coloring.

The little pond in front of house was overflowed with town water last night & remained so all day. At 7 a.m. there were upwards of 30 little birds bathing along its grassy margin. More & less of them came to it again & again through day. There were some 20 Peewee-birds, 4 or 5 junc. White-crowned Sparrows, a junc. Chaffy, a Song Sparrow, 2 Towhees (♂ & ♀), 5 Robins, 2 Cat-birds, 6 Goldfinches (all in country fork) All these were seen bathing together, sometimes

a dozen at once & quite amicably save that all the others draw away the Goldfinches whenever they attempted to join the general throng. The White-crowns seemed very tame & close. Some I saw 4 of them at once & I think there was a fifth. In Cedar Park at 8 a.m. I heard the one-phase, harsh, & somewhat cluck, other clear, clear of an Acadian Tit. I suspected that it was a downy young. The bird was unseen but near at hand. Its muffled flight of my growth. Only a few Yellow-rumps seen.

To Birch Field with Jimmy at 8 a.m. Only a few birds there. Noting that a Gray Squirrel broke into tree trunk in hollow of barn. Plucking downy birds near a s.m. at 1 P.M. returned to Concord & returned. Mr. Wentworth & his family had a fine left hand. Book by J. P. L. had a Mrs. Dexter Carr at 4 to back road.

Concord (Farm)

Young Yellow Golden Plover, eaten by Fox
 Ther 70° mag, 2 Tigris killed by Hawks
 Sunday, Oct. 8, 1916
 Wea Glorious

Another perfect Indian Summer day
 with tender blue skies, the gentlest breeze
 of N. breeze & summer-like warmth.
 Bullfinches & Dragon Flies on wing by scores.
 Richer coloring of maples, sassafras & high
 chestnut's superb. Redwings, Tanagers of gold
 not many migrants & their feathered. Only
 a few Yellow-rumps & juncos, more than those
 Robins & catbirds to be heard. Still
 lingering in front of house & bathing in pond
 2 Song Sparrows & a Flicker seen on lawn.
 Our Turkeys, 16 in number & almost all grown,
 were turned out of their yard for week long day

before yesterday at 10 A.M. During remainder
 of day they were seen once out & one night
 were never once known to stray below their 100
 yards from the house. Yet at 2 P.M. we missed one
 from the flock. I found its remains in day
 where a Fox had eaten it on the pine ridge east of
 kitchen place. Only one stray feather in path leading
 there. Near the path in Pine forest where Fox
 had eaten white Hawk Pigeon on rock. We
 must have caught it in our trap and for the
 Fox took next leave this. Fox & dog now were
 scattered about all day when Turkeys roamed.
 Two other white Pigeons (Hawks) killed by
 Hawks & eaten in trees where their feathers lie in
 heaps. Have not seen or heard a Fox this autumn.
 Truly, completely drowned out for one of (last
 year) & fragment of skeletons.
 Out with young through berry bushes & to
 field 4-11 A.M. & through pine & over
 pine ridge to White Field & back to
 house latter & chase for miles at other hours

Concord - Cambridge

Ther Monday, Oct. 9, 1916
 Garden birds. Wea Fair

Mostly sunny but densely hazy.
 Oppressively warm until late P.M. when,
 after a light sprinkle of rain, strong, cool
 N.W. wind began to blow. Beneath cloudy skies
 To Boston by 8.27 train. Saw with Geo Hayes.
 We waited at North Station where I took a
 trolley car to Cambridge leaving it at Memorial
 Hall & walking thence to Mrs. Comp. Tool.
 When I spent forenoon, meeting there Henshaw,
 Savage, Bigelow, Harbour & John Thayer.
 I was then named arrived bringing Alexander
 Wilson's gun a single barrel from the
 Trade Collection recently purchased by Thayer
 from Wadsworth's Excelsior. Reached our house
 (by taxi cab) at noon, lunched in Museum
 & then worked for 2 hours copy data for
 my An. Report from Mrs. C. Z. receipt book
 which Percy was to return before night.

Garden radiant with flowers, especially
 thousands dahlias, and also with birds
 including 4 Robins, 4 Yellow-rumps, about a
 dozen Juncos, Thrushes, a Gold. Oriole, a Black-b. (red)
 & a Wren. Percy reports a Towhee seen on 7th
 & 4th near White Sparrow house in next 2 weeks.
 No signs of many early grasses very good.
 Arbor vitae fruitless in grassy field.
 Small 3.53 train to N. Cambridge & to Bedford
 where I took next train. Bedford & Concord
 with autumn coloring. Heard saw 6 juncos

all feathers of Pigeon & Bullfinch

Concord (Farm)

My first Partridge, for many a year, shot.
Ther Thursday, Oct. 12, 1916 Wea
34° at day break First Can. Geese seen 7 am

Clear & cool with light easterly wind.
Hour frost coating everything at day break
but damaging no vegetation about our Farm

Hordes of Juncos & White-throats, at least 30
Robins, a Song Sparrow & a Towhee, frequent
in or close about the Farm, including
the Berry Pasture.

Birds flock swarming with Yellow-crowns.

At least 50 there & south have a handsome
Nashville Warbler with ash blue head &
clear yellow under parts. Also a Yellow Palm
Warbler & 3 Ruby-crונים, of which I noted
2 others elsewhere. Woodpeckers (Red-bellied) Chickadees
& Winter Wren heard near Barrett Spring.
Sapsucker (♀) in Tulip Rock firing.

Geese, puffing in every direction all day
long. I took mine out at 8 a.m. & that a
few Partridges, perched in an alder, which

Jimmy shot in Berry Pasture. He also flew up
2 Pheasants which gave me no chance.

After that we went to Birch Field and found
no game bird there.

At noon Mrs. Storer arrived with some more.
Mrs. Dr. Trilocher & daughter lady. They
lunched in Cedar Park. After lunch I walked
with them to Pleasant Hill.

Men putting apple trees in grove further west

Concord - Farm

Ther Friday, Oct. 13, 1916 Wea
First flight of migrant Crows Stormy.

Dark cloudy with violent S.W. wind which
brought rain by 3.30 P.M. The first we
have had for weeks it came in intermittent
showers & is still falling - at 8 P.M.
The long continued rainstorm brought
has made the woods as dry as tinder &
all but the larger brooks have been water
& ice. Vegetation has not suffered much, however.
Almost all the migrant birds have
yesterday must have passed on southward
during the night. Scarcely half a dozen Peewee
birds remained about the Farm & but one
Junco was noted. Near which Birch Field was
haunted by only 5 or 6 Yellow-crowns.

A. C. Sapsucker, apparently the self-same bird seen
yesterday was met with to-day in Cedar Park.
Two red & Purple Finches in Oak in Berry Pasture
40+ Crows migrating high S.W. at 60 a.m.

"Jimmy" & I were out with the gun, 9-10.30
a.m. but stalked only one Partridge & shot one
of range. We visited the Berry Pasture & Birch Field
Monson's Cattle, back after a weeks absence, with
Jeph & Lawrence's gray horses, hauling stumps &
cauldray in Berry Pasture. Harris & his men
moved & sent his bed bath stove to day yard.
I spent much of day in house writing letters

Concord (Farm)

I shot a second Partridge

Ther

Saturday, Oct. 14, 1916

Wea
Fine

Raining at times very heavily, through most of last night but the sun was clear this morning & shone brightly all day. The wind had shifted to N.W. & blew strong & cool. I went out several times & died away.

Despite the cloudy skies, below S.W. wind.

deluge of rain of last night a heavy flight of migrants must have come from somewhere further north before sunset & sunrise for our woods & fields were barren of them yesterday & flooded with them today.

The were mostly Yellow-rumps & juncos.

Of the former I found a flock of at least 30 in pine near Pulpit Rock & as many more in Birch Field; of the latter at least 60 about

the day about the farm occasionally visiting the bird bath to bathe by teams at a time. Some were thus engaged after sunset although the air was then almost frostily cool. How came they here in day when places before going to roost. There was also a fresh, not very great, influx of probably birds.

Jimmy & I tramped through Berry Patch & Birch Field soon after breakfast, but saw no game. We started out again with me in gun at 3 P.M. when he tried a Partridge in Cedar Park. I went back to house for the 20 gauge & cartridge. That the bird on its feet in a wood apple tree. We started two more in Berry Patch & a fourth in Birch Field but they gave us no chance. Clean for a shot.

Concord (Farm)

Heavy flights of Starlings southward bound

Ther

Sunday, Oct. 15, 1916

Wea
Fair

32° min 64° max,

Forenoon sunny, afternoon cloudy. Strong S.W. wind. Ice as thick as window glass formed one night. Yet no timber or plant anywhere near our house shows any signs of injury from frost. Between day break & 10 A.M. the temperature rose from 32° to 60°. It went 4° higher, later.

An extraordinary flight of Starlings all southward bound & well above tops of larch trees, moving thin, half a dozen or more flocks of 10 or 20 numbers each, passed over our house 9-10 A.M. At 4 P.M. I saw at least 150 in one flock, closely crowded, passing over within 100 yds. Upwards of 40 juncos, half as many Peabody birds, a Song Sparrow, a Fox Sparrow & a Chipping were sitting about farm all day making frequent visits to the bird bath especially at noon - & fairly crowding it at times. A few Yellow-rumps scattered widely, 4 Hairy, 2 Ruby-crowns (one at bird bath but not bathing), 2 Gold-crests,

a number of each kind, a Creeper, Titmouse heard,

a dozen or more Robins, 5 Partridges in fields, 2 in garden, in Cherry tree, Jimmy tried 20 gauge in fields. I saw him but not with me. Bird bath busy 10-12 A.M. & 4-5 P.M. Working in hard part of day. The Blackbirds, Hairy Woodpecker & her son Black and came in & P.M. to hear Blackbirds, singing about 7.30.

Concord (Farm)

Ther Monday, Oct. 16, 1916 Wea
Dry Squirrels nearly at hand, a few Red, many White-Tails

Partly cloudy, mostly sunny; warm;
light S.W. wind.

Some had maples mostly bare, others leafy &
glossy, a few still green. Bunches have lost
little foliage as yet. Hardly any white-flowered
flowers. Some Linnaea still making a bare show.

After a brief flight of several swallows, seen
no less than nine. Farm covered, flanked with
oaks & white-throats. They were seen
on many Robins bathing in front of house all day.
Two Ruby-crowns in barn. Bird in Birch
Field looks a big black. (304, a yellow-rump
white. also included a Yellow-bellied Warbler,
a Gold-Crested, Chickadee & a Downy.

A Suburban Taffy Lefty on the trunk in barn.

Bluebirds calling in many places, on wing.

2 Song Sparrows. Jays all gone, apparently.

No Pheasants. Only one Partridge.

Through many Pasture & Birch Field with Jimmy

& Chas & again with Dexter 3-4 P.M.

Morton, as far as Iph working in deep woods.

Harris & I on bird bath fountain, Barnard

& George feeding apples. I see many

Chap. woodpeckers, a few Red Squirrels, no Jays.

Concord (Farm)

Ther Tuesday, Oct. 17, 1916 Wea
Late lingering Phoebe.

Early morning cloudy & mild, Rest of day
brilliantly clear with steadily falling temperature
and a living gale blowing at first from S.W., then
shifting gradually to N.W. Large trees in exposed
places have many dead branches & not a
single living ones. Dust blown from road surfaces
flew in clouds over woods & fields, and
brilliant autumn leaves filled the air at times
or circled and eddied high over unpermeated.

As always happens when there is wind
of such extreme volume it banished.

most of the birds from open places. Only
two juncos & white-throats visible in

dozens, and but there were a dozen or more

Robins there at times & all three species
bathed freely. In Birch Field I found about

a dozen Yellow-rumps, a Ruby-crown, and a

few more. Jimmy & I went there

in both forenoon & afternoon. He & I

in both forenoon & afternoon. He & I

opening within ten yards of me & then look
right behind some bushes from beyond. I
get gun in hand. On the way back on 11
he tried to get Gray Squirrel on a tall tree &
I shot it.

Harris presenting about bird bath, Left
Chap. woodpecker, Morton & Chap. woodpecker on
barn, a few Red Squirrels, no Jays.

Worcester (Farm)

Ther

Friday, Oct. 20, 1916

Wea

74° max. 70° at sunset.

Fair

Sun shining steadily but more or less obscured by filmy clouds or dense haze. Unseasonably warm with light southerly wind. Hylas calling. One or two Butterflies in wing.

Comparatively few birds. The Sparrows
about orchard, doyard & were
thereall to not more than 25-June &
10-July. Thrush, the Robin, numbering
only 1 or 6. All three species to birds but
not numerous or often. The Robins feed
a little at one few remaining Hawthorn.
They have well-nigh stripped all the
barberry bushes above the fence.

of other birds I noted scarce any.
Jimmy & I had no luck with the gun.
We flushed a Partridge in the sun & he
in Berry Pasture. In latter I saw a big
cock Pheasant strutting through a dense
thicket. I might have shot him there but
mistaken tried to get a song that but he scolded
on & finally took out of range.
A Jay in Berry Par. I saw birds on camp. I flushed
him. ^{came} ~~came~~ ^{came} for, Buckwheat & I spent most of
day rambling frontally & flying on yard at
E. end of house. Mouson had just come.

Benson (Farm)

Ther

Saturday, Oct. 21, 1916
Atalapha cinerea

Wea

May ed

Forenoon cloudy with frequent light showers.
Afternoon sunny, with brilliant light shed on
still more brilliant autumn foliage (mostly of oaks &
birches). Very warm all day, Fresh S.W. wind,
No many birds & those scattered. About
8 or 10 White-throats, a Song Sparrow &
a Chaffinch came to bathe at noon. A Towhee
calling near the house. 2 Goldcrests in Pulpit
Rock ferns, 2 Yellow warblers in Birch field,
a Lone Crow skimming southward in flocks
of 6 or 8, apparently migrating. A Sand Owl
soaring in them, near Pulpit Rock, at sunset.

The little hen Partridge that ran across my
path from the dew shells in Birch field, on
the 17th, has been seen there frequently of late.
Jimmy flushed her from it this afternoon
when she came preening out just in within
ten yards. As she crossed the path & was
about to disappear among lower young ferns I
shot at her head & almost saved it. The
charge also shattered her right wing but did
not touch her body - a lucky shot.
We stalked three more Partridges one of which I
killed easily here & shot on the ground - but
wounded him. I did not fire at any of them.
Spent most of day with fish & was
drying them & such. He brought me a beautiful

Concord (Farm & Ball's Hill)

Ther 3 Sunday, Oct. 22, 1916 Wea
3 Acadian Chickadees, 1 Western W. Hawk

Forenoon sunny, after noon partly cloudy.

Rather cool with light westerly breeze

H. M. Spelman arrived by train reaching Concord at 9.50, where Gilbert met him. He & I had a delightful walk in forenoon, to Ball's Hill over Prescott, over to Davis mill, returning via Golden.

Soon after entering Birch-Field we heard the voice of an Acadian Chickadee & traced it to the cluster of intermingling grey birches & white pines

through which the cart path runs just after entering the "fields". A few moments later we espied no less than 3 of the Acadian Chickadees following each other down about the path, pecking at the much lower. I actually within a few inches of one another all three looked precisely alike. They were very tame & for the most part silent. Staring about beneath them we watched them for several moments & finally left them there. No other bird near them save a solitary Black-c. Cap. Chickadee about 60 yards away.

Another interesting bird seen among Birch & Spruce in the edge of Acadian meadow was a Talpa Warbler quite typical of the western race. Two Field Sps. & at least 3 Song Sparrows in this meadow. Only two Song & one Pasquett Sparrow. Finally found the Callie in Acadian forest. 2 Robins, 2 Chimney Swifts, 1 Gold-c. Swift, a Hummer, a few Grackles & Redstart birds, about a dozen Crows, a Hairy W. a Trump Finch, 2 Robins & 3 Acadian Chimney Swifts completed the list. No! There was also 9 Acadian Chimney Swifts seen on way to the Talpa.

Harry drove with me & departed at 3 P.M.

Edmond Swallow & Raymond (first back from Texas) called at 4 P.M. & stayed upwards of an hour.

At 7.45 P.M. I went to John Lawrence's to have his son Richard's Acadian Chimney Swift & Acadian Chimney Swift which were new to me & very good.

Concord (Farm)

Ther Monday, Oct. 23, 1916 Wea
7 P.M.

Partly cloudy, mostly sunny; light, brisk northerly wind.

Late autumn coloring perhaps at its best now. Elm foliage soft old gold, hickory comprehensively have a great deal of similar color, many oaks, both Acadian & White, uncommonly brilliant-hued. High blueberry bushes now best so.

Big flock of Acadian Chimney Swifts among bonds & mill in orchard, a few Acadian Chimney Swifts in bird bath. Ten birds barely, nearly all gone.

Only one or two Acadian Chimney Swifts of Acadian Chimney Swifts this afternoon & yesterday morning. Saw (from window) a flock of 15+ Acadian Chimney Swifts, apparently of two species, flying low S.W. at 3.15 P.M. To day heard the Acadian Chimney Swift of a Acadian Chimney Swift which only once been very distinctly. Being well back in down from house I failed to see the bird (or flock).

Spent most of day in or near house. Out with gun & Jimmy in Birch Field. He flushed 3 Acadian Chimney Swifts & 2 Acadian Chimney Swifts (in corn). One

Acadian Chimney Swift gave me a fair cross shot in open air, edge of woods below orchard, but I missed it. "Chase". He then tried one more again seen. Jimmy pulled him out of house shortly & he was heard.

Concord (Farm)

Ther Tuesday, Oct. 24, 1916 Wea
Evening Clear (?!)

Heavy white frost at sunrise contrasting exquisitely with brilliant autumn foliage in thickets of blueberry bushes near our well house across the road. Forenoon brilliantly clear & quite windless. Clouds gathering & easterly wind rising in late P.M.

Very few birds. Robins. Thrush all gone & less than a dozen juncos noted.

Only two Robins & a Flicker, 3 Goldfinches & a couple of Jays near house.

Bird Field well high deserted save by Chickadees (11 in our flock) & Goldfinches (21).

As I was standing near the well at 9.30 A.M. the notes of an unseen bird which I feel almost sure was an Evening Grosbeak came to my ears, apparently from below Park. They were not unlike the harsh chirp of a House Sparrow but much louder & otherwise appreciably different. I hurried down the lane but the bird ceased calling before I had gone many rods & then was heard again off the road, over the house.

Spent most of forenoon with me near house. Coldest wind to Cambridge. Distant coming to dinner. After it was walked to Park. Found that a Gray Squirrel near the gate.

Concord (Farm)

Ther Wednesday, Oct. 25, 1916 Wea
Fine

Early morning foggy & also somewhat cloudy. Sun shining brightly after 10 A.M. Frost over night but most of day comfortably warm with light S.W. wind.

Oak foliage very handsome now. Also that of high blackberries & mountainberry bushes. Birch leaves losing color & many fallen. One swamp maple in sun has not lost a leaf as yet but its foliage has turned yellow without trace of red although the tree is Acer rubrum beyond a doubt.

Fall migration practically over. The only birds certainly a south-bound migrant, noted to-day, was a solitary Yellow-rump. In Berry Pasture, at 9 A.M. I heard Pine Squirrels calling all about me & evidently pecked but not one could be seen. Besides their customary notes they uttered freely the Goldfinch-like may-be freely & very sweetly. There must have been many of them. No Robins. 3 juncos & a Goldfinch barking.

Spent most of day planting bulbs & other things with Burdett's help. Evening I went to Birch Field at sunset. As I ran through the thicket where I shot the heron Partridge last week, without starting any other bird, when I came to a few Partridges flew in small successive flocks of gray birds without any noise, from behind the trees. They gave me

they were seen in all through the brush from the edge of the field.

Concord (Farm)

Ther Thursday, Oct. 26, 1916 Wea
Fin

Brilliantly clear with warm sun
and fresh, cool W. wind. Evening
much cooler.

Leaves detached & driven by strong wind
flying in clouds, as thick as snow flakes,
over open fields. Many trees, including
elms & hickories, now nearly or quite
bare. Oaks still dense with foliage
but its more brilliant tints are fading.
The brightest autumn coloring now afforded
by blueberry & huckleberry bushes.

Very few birds. A solitary Robin in
the Strawberry patch, 2 Goldfinches in
bird bath, a Jay & a ♀ Red. Shouldered
Hawk flying over orchard, was all
I noticed near the house - there was
also a Song Sparrow there.

In Birch Field, towards Sunset, Jimmy
trick them Partridges but they were so
wary I got no shot. I saw then a
small flock of Chickadees, a Canada Warbler
& a Yellow. Warbler. Heard another Yellowthroat
in Berry Pasture. Saw a small Bat
flying about very busily near house at eve.
Spent most of day with Buckwheat,
plowing & other things near house.
In the eve. a lot of Cardinals in Berry Pasture.

Concord (Farm)

my favorite Partridge shot
Friday, Oct. 27, 1916 Wea
Evening Crossbill. Heavy flight
of Southwood Crows. Perfect.

Brilliantly clear & delightfully warm
with light, soft S. W. wind. A few Dragon
Flies on wing at noon day.

Shortly after breakfast I was standing in
our dooryard when an Evening Grosbeak began
calling very near at hand, apparently in the
strawberry at head of lane. This time
there could be no doubt as to bird's identity
for its loud voice reached my ears with perfect
distinctness & its notes, House-Sparrows. After a
few minutes gradually changed to the more tolerable
double notes, the most similar that of the Peew Grosbeak,
for as the flock of the birds I heard last
year & I heard. This bird called for perhaps
half a minute & then ceased abruptly from
which I inferred that he was finished at for
the day in the season.

37 Crows, flying high. Six or eight Chaffinches
passed over at 7 A.M. They were followed an
hour later by 11.5. This second procession was
more than a mile in length. The numbers
were constantly changing & their voices were
pleasantly surprising to me. Still and
a third flight of about 100 birds passed. Still
40+ flocks in our meadow. 15 Robins calling
bark-bark, 2 Foxglove Grosbeaks in one patch.
Mourning & Juncos. Both again, travelling on
road at foot of orchard. Lark & Song. Cuckoo
Bogus. I plowed better with Buckwheat.

At 4 P.M. went to Birch Field with Jimmy
to shoot & Partridges there. 6 were there from
ground in our field. I missed a fairly good
one from about 200 yds & then cut down one that
by a small trap that as it was flying in
high among the trees above the trap. This
accident made my nerves tingling & I was
very nervous in the evening.

Concord (Farm)

Ther

Saturday, Oct. 28, 1916

Wea

Cock Pheasant shot.

Perfect.

A very autumnal day, absolutely cloudless, almost windless, with warm sunshine & at least one Butterfly (a Clouded Sulphur) on wing, about Grass fields which with hour frost at sunrise.

Pheasants calling vigorously in Perry's garden late evening and this morning early. At 6.45 I set forth in pursuit of them. Under cover of a brush field approached corn patch closely & heard them running through the corn when I showed myself. A moment later 3 birds rose among the brush beyond, 2 out of range, but the third was not far, as he topped some alders, in swift flight, a charge of No 4 shot from the 20 gauge brought him down. I looked for him long in vain & was about to give it up when his tail caught my eye in a bush & I was a superb fellow & in perfect plumage.

Feeling & going to Birch Field at 9 a.m. also flushed a Partridge there. He went again at 11 a.m. & returned beyond about 12.30. I shot, during morning, Pheasant (1), Hen (1) and also a few other birds. Some 2 Hairy Wood Thrushes & 2 Yellow Warblers in Birch Field. Also a few birds at Perry's - about 20 Juncos, 2 Robins, a Song Sparrow etc. 37 meadowlarks, Crows, Starlings, etc. were seen at 8 a.m.

Spent most of day with Burdocks, plowing & transplanting shrubs etc. Haystack & Arthur Garrison called when I was about in late P.M.

Concord (Farm)

Ther

Sunday, Oct. 29, 1916

Wea

Fair

Sunny with some light clouds gathering in late P.M. Good frost in early morn. Warm throughout day. Light southerly wind.

Not many birds. About 20 Juncos in meadow patch, a few Sparrows in Swampy meadow, a few of which among farms in Birch Field, chirping loudly at first. A few Chickadees, one Canada Warbler, a Jay, several Crows (evidently local ones).

As I was sitting by the window at noon a Pigeon Hawk came flying low over our back yard. He did not seem to notice the rows of white Pigeons on the shed roof. But I saw that they noticed him & watched his flight closely, with evident suspicion.

Brown came down in forenoon to make our apple trees for chaining. I saw a few Crows. Late evening to Birch Field at 4 P.M. He flushed two Partridge there & took one of them - in a better shot.

Concord (Farm & Sleepy Hollow)

Ther Monday, Oct. 30, 1916 Wea Fair.

Sunny but densely hazy; very warm with light southerly breeze & intervals of calm. Altogether an Indian-summer-like day.

About 8 a.m. a flock of Hairy Woodpeckers comprising at least 75 members alighted in the top of an elm & remained there several minutes before flying off but westward. They were very noisy while perched.

Upwards of 30 Juncos feeding in millet. 2 Robins descending from high in air at sunset & picking roots among dark grassy places in Marsh Field. Three Redwings flushed by Jimmy in Marsh Field, one out well drumming on them with its feet & two Red Chickadees, a Jay, a Downy, several Crows. Titlarks heard in Grass Field.

Spent much of forenoon cutting out a new pathway through Marsh Field. Went there again with gun at 4.30 P.M. when Jimmy started the Partridges. I got no shot. Motored to Sleepy Hollow at 6 P.M. & returned places for baseball to be played on Hill, Malvern near Mineral.

Concord Farm

21 Ther Tuesday, Oct. 31, 1916 Wea Dull

Dark cloudy with cool N.E. wind & mist so nearly like fine rain that the trees dripped with it & the grass was soaking wet all day. Yet there was no perceptible rain fall whatever, or at least none sufficient to make one think of using an umbrella.

Not many birds about the Farm. Started upwards of 25 Juncos in the millet. 14 Pine Squirrels & 11 Starlings seen on wing. The former alighted for a moment in an apple tree in the orchard. Visiting John Berry, Fishkill on 11 a.m. night, unusually well over a year, I was surprised when Jimmy flushed no less than four big cock pheasants from dark brush land near one two patches of standing water. But I should not have been surprised, I have seen from a heap within 20 yards of the birds for an hour or so. Heard an Acadian Linnet call many times in tall leafy oaks just above Cedar Park & started a drummer Partridge from there with its feet & gun. Hoping to glance under the green top of a fallen pine in Purple Park woods I stepped on a cotton-tail Rabbit crossing their path in a yard of meadow Jimmy at my very heels, did not shoot him & we left him there undisturbed. Spent most of day and a day with the new, deep cut above the tall bluffs along the river and a day and a night.

Concord (Farm)

Ther Wednesday, Nov. 1, 1916 Wea
mild.

Forenoon dark cloudy & densely
foggy with one brief but brief
shower. Afternoon sunny, calm,
very warm & delightfully serene.

Bird life at low ebb. No marked
migratory movement save that of flock of
13 Horned Larks very high in air and
flying straight southward, at 3 P.M.

20+ Juncos in meadow, a dozen or more
bathing in noon. Titmice, many. 3 flocks
of Chickadees one of 10 a more numerous.
A Creeper, 2 Jays, a Hairy Woodpecker,
one Parula (in Birch Field), a Screech Owl
watching close to house in evening twilight.

What has become of the Fox Sparrows?

I forget to mention in above but a flock of
7 Goldfinches eating seeds N.E. side in lawn.

At 7 A.M. I went to Berry Pasture taking the
gun but not "Jimmy". As I approached the cattle
pasture a cock & a hen & several other fowls
& scattered off 100 yards or more along a call path.
3 more calls rose on long a moment later, with
loud outcry. Not one of the first birds appeared
any chance for a shot although the air about
pink seemed near almost perfectly. Long wait.
Spent most of day supposing my mistake was
about distance, rather than wrapped the bird back
in leaves & covered head with grass & hay
in the corner to down. We went to Birch Field.

Concord (Farm)

Ther Thursday, Nov. 2, 1916 Wea
64° max. Perfect

Cloudless with tender blue sky & not a
trace of haze. Fields white with hoarfrost
at sunrise but most of day delightfully
warm. A Clouded Sulphur Butterfly, hovering
about some *Junia* flowers close to shed
house flies & tiny Diptera on wing in
bushes. Hyla peeping nearly as in spring.

Hardly any birds about despite the
mainly Indian Summer weather.

2 or 3 Juncos, a Goldcrest, a Jay &
Crows were literally all I saw or
heard near the house. Another Woodcock
seen in the field; Chickadees were all that
could be found in Birch Field.

Shortly after sunrise I hunted in the
cattle patch in Berry Pasture, across the fence
into wood field, hoping for a shot at a Horned
Lark.

but none was there. At 4 P.M. I went there
again & flushed an old cock who rose from
the brush 100 yards off cattle house & calling
answered by another bird still further off.
Some after this I started 3 wary Partridges in
hedge back. Following them I got a deep shot
at one in dark back but missed. Water still
about 2 inches in Birch Field. One of three
was shot with path leading but two of us were at
once, the other shot across on wing. The other
in back with two more & another of the morning

I spent most of day at farm & was very busy.

ni 6.30 & stayed until 9. We also very kindly called on

Cambridge

Ther

Sunday, Nov. 5, 1916

Wea
Stormy

Forenoon dark cloudy with incessant, but at no time heavy, rain. Clouds thinner in afternoon with no rainfalls, very chilly all day.

In Garden: A Peabody bird & 2 House Sparrows feeding together on Tignon grain. Crows cawing not far off.

Spent forenoon in Museum, writing letters. Miss Allyn & Frank Manning one guests at dinner. With Miss Henders C. & E. R. S. we sat down six at table coherent soup served roasted an cock Pheasant that at covered a week or more ago. Although everyone seemed to be kept liberally the birds white & savory flesh was not quite all gone at the end of the meal. I skinned out some of the handsomer pieces of his plumage before he was killed.

Frank played until 5 P.M.

E. R. S. read letters from John Dunn & played Piccola, for over coming buttanami

Cambridge

Ther

Monday, Nov. 6, 1916

Wea
Fine

J. E. Law visits me.

Clear & cool but not frosty. Light westerly wind.

Almost all deciduous foliage fallen in garden & jungle. Only remaining flowers a few Zinnias & Marigolds in sheltered places & abundant small Chrysanthemums. Grapes all gone; there were not many this year. To my failure no disease is due the failure of the crop, but the numerous insects on the vines & leaves

in Goldenrod Kinglet & about a dozen House Sparrows, the only birds noted within our grounds to day.

J. E. Law of Los Angeles, California came this morning 9.30 by appointment to spend the day with me & see the collection - a very pleasing young man whom I liked at first sight & who also impressed me as an excellent ornithologist. He departed at 4 P.M. through in my sight eye, because of which I did not attend. Nuttall Club meeting this evening

Cambridge - Boston.

Ther Tuesday, Nov. 7, 1916 Wea
 mild & clear Fine

Sunny but hazy, windless, heavy white
 frost at early morn, chill air all day.
 Altogether ideal weather for the
 Presidential Election.

In Garden: 2 Chickadees, Goldcrest (heard),
 Goldfinches (ate sunflower seeds, from
 of Museum), 10+ House Sparrows, Downy
 Woodpecker (Brattle St. in Hubbard Park)
 To Bowdell St. at 10 a.m. voted straight
 republican tickets throughout, then to
 Boston where I spent 3 hours (12-3.30)
 at our office, luncheon with Arthur
 at Torrey. The Ninth Mass. Regiment,
 returning from Iraq, marched past
 while we were there. Street crowded
 with people who cheered only moderately.

Home by 4.20 P. M.

Alvin & Harry Bartlett called at 8,
 staying until 9. After that we tried
 some new records from the November list.
 Only three or four proved satisfactory.
 A very beautiful one by G. H. S. - L. J. S.

Cambridge

Ther Wednesday, Nov. 8, 1916 Wea
 Blue Jay, minor Sparrow Hawk, Fine

Clear, calm, comparatively mild
 morning. Trees still well clothed with
 autumn-tinted foliage but the leaves
 falling fast. Those of Japanese very nearly
 all off. Few other trees shrubs or vines
 have any left.

In Garden: 3 Chickadees & a Goldcrest
 foraging on soil by Museum gate. Torrey
 Sparrow, 10 or a dozen House Sparrows.

My right eye increasingly troublesome
 since Friday last. Consulted Dr. Williams
 about it at 8 a.m. He found & excised
 a loose eyelash but the discomfort has
 not since much abated. While on way to his
 office at 8 a.m. heard the rattling call of a
 Sparrowhawk repeated many times. It was
 presumably traced to a Blue Jay among
 shrubbery in Nichols place. I have seldom if
 ever before heard a Mass. Blue Jay mimic
 the Sparrow Hawk.
 Spent most of day in Museum. The
 eye trouble prevented any work upon collections
 than writing over papers & writing letters.
 These latter, G. H. S. read about in evening.

Cambridge - Concord (Farm)

Shoot my fifth Partridge.

Ther

Thursday, Nov. 9, 1916

Wea

62° mod.

Fine

Sunny; very warm; strong S.W. wind;

clouds gathering at sunset.

I. Cambridge Garden: 4 Goldcrests with
5 Chickadees, adult Peewee bird with
patch of feathers gone from one side of breast,
Pine Siskin & Downy W. heard, about a
dozen House Sparrows.

Concord Farm, a House Sparrow & a Goldfinch
in dooryard, a Fox Sparrow with 10+ Junco
in Green Field, the Sparrows heard in
Berry Pasture, a Creeper near Pulpit Rock &
another in Prescott Pine, 2 Goldcrests seen
in Cedar Pass, 2 Partridges flushed in
Birch Field, one in Green Field, one Pheasant
in orchard, 2 hens in Berry Pasture Cove.

No other birds noted, not even a Crow or Jay.

Motored to Concord in forenoon (10.45-11.50)

via - Temple P., Arlington, Burlington, Bedford
Out with the 20 gauge & being made up P.H.
at the very last I flushed a big Cock Pheasant
in our orchard. He ran almost under feet, from
a rocky hollow & gave me a fair shot which
missed, being wholly unexpected for 3.500 yds.
This thing started a hen Partridge in Birch Field
just happened to be her "tree" in a knoll by
Pulpit Rock where I shot her. An hour later
I entered the corn patch in Berry Pasture where
2 hen Pheasants were within ten yards. It
was a fair chance for a double shot but I
fired only one bullet & missed with the

Concord (Farm) -

My second Pheasant shot

Ther

Friday, Nov. 10, 1916

Wea

Redpolls here in flocks. Fine

Brilliantly clear & no more than agreeably
cool with much W. wind.

So Berry Pasture at 7 a.m. Scarce had I
shown my gun around south corner of orchard
near house when 2 hen Pheasants rose in alder
thicket beyond the corn patch and hurried
off at amazing speed, on whistling wings.
Only the first one gave me any chance at a
shot & that a long one but I brought her
down with a heavy charge of #4. On reaching
the spot where she fell I could find only a
few feathers so returned to the house for "Limby"
He took up the trail of the wounded bird at
once & quickly found her in a ground juniper
about 50 yards off. Lying & holding her there
without difficulty although the sun was very
low for a bright day. Later in day we
visited Birch Field twice flushing 2 Partridges
their first opportunity to get a shot at either
near farm house saw 5 Juncos, one flicker &
14 & another of 24 flowered Gnatcatchers (as song), 2
Redpolls & a Goldfinch, a few sparrows & a Crow.
Another flock of Redpolls (12) flying over Birch Field
near Pulpit Rock 10 a.m. are interesting
assemblage of birds including 2 Goldcrests, a Creeper,
several Chickadees, 2 Robins, Grackles & 1 Canada
Nuthatch, a Starling & a Downy Woodpecker.
Spent most of day out of doors attending
to various things. Hanson & Casper began work
about 9 a.m. till 4 p.m. being heavily
worked & Joe furnishing up last ends of work.
Hanson & I took up paper news, dog holes
for fence, mended logs for well etc

Concord Farm & Ball's Hill

Ther ^{low} ~~low~~ Saturday, Nov. 11, 1916 Wea
An ~~unlucky~~ day Glorious

Brilliantly clear with strong west wind
very cool & bracing but wholly without chill.
Altogether a rare day of late autumn type.

Flock of 40+ Crows migrating low
S. W. in rather compact body, 9 a.m.
Fresh arrival of juncos; 25+ in
Cedar Field, 15+ in Birch Field.

Redpolls much repeatedly. 2 Jays.

Goldcrests & Chickadees heard near
Cathie Rock & also at Ball's Hill.

Slight yellowish brown Hawk (possibly an
Owl) no bigger than a Broad-wing &
shaped like one, seen flying. Bulb-like flight,
from an oak on Davis Hill, 3.30 P.M.

6 Pheasants in Billy Pasture, started on
old cove from edge of corn at 7 a.m. & fired
a long shot at him, in vain. Shortly after

2 hens appeared in front of house & some flew
back to Billy Pasture. 1 followed & followed,
then in blueberry bush within 15 yds., having
a fair chance for a drink but missed with my
gun. Several other ducks brought a crowd of
quacks from the other end. But she kept on one
of light flying fully with one leg broken & drooping
soon after then flushed 2 crows & a hen but
they all took land & gave us no chance.

Spent forenoon about farm & in nearby
woods cutting cedar for goose down beds.
In Ball's Hill in P.M. Put away books etc.
Glad to see a storm back home.
Walked out with Mr. & Mrs. Davis Hill.

Concord - Cambridge

Ther Sunday, Nov. 12, 1916 Wea
30° min. 42° max. Dull.

A clear, corny day, thin cloudy, chilly
with light northeasterly wind & a flurry of
white, frozen pellets in P.M.

3 Crows flitting close about farm house in
early morn, one with nut of corn in his beak.
No other birds noted then but a flock of 15,
juncos seen near Cathie Hill.

Deciduous trees of every kind, excepting a few
oaks, completely without leaves now.

Closed farm house. This forenoon & returned
to Cambridge (10.20-11.25) via Bedford
Lexington, Arlington & Lowell by Fast Post
Strolling thru Garden shortly after arriving there
I noted within ten or fifteen minutes
2 Chickadees, 2 Goldcrests, a Yellow-rump, 2
Peabody birds (1 in, 1 out), 6 juncos (drifting through)
2 Downys (♂ & ♀) & 1 Hairy Woodpecker (the latter
rather big bird), a Jay (heard)

Our guests at dinner were Mr. & Mrs. Almy,
Mary Almy, Allen Almy. They stayed
until 4 P.M.

Miss Henders, C., E. R. S. & I spent evening
in hall, E. reading "Something New" aloud
Jimmy's lameness almost wholly gone.

Jimmy's lameness almost wholly gone.

Cambridge.

Ther

Monday, Nov. 13, 1916

Wear
Dull.

Slight cloudy, calm, intensely chilly.

In Garden: Chickadee & Kinglet (Golden)
heard; 4 Pine Squirrels in willow by
Museum gate apparently gleaming food
among terminal twigs & keeping up a
subdued conversational chattering; a
Fox Sparrow feeding in grass beds south
3 Peabody birds two of which were
handsome adults & one of them, the self-
same bird noted on the 9th as having
a rather large space bare of feathers on
right side of breast.

From our dressing room window, at
8 a.m., I watched a Gray Squirrel
stripping off shreds of white inner bark of
linden branch (as thick as my thumb)
and carrying these to its nest in the
hollow trunk of the tree. Yesterday
I saw three large Squirrels together here.

Snow made of a day in Museum
working letters. Miss Balch dined with
us at 1 P.M. We had reading &
colloquies as usual.

Cambridge

Ther

Tuesday, Nov. 14, 1916

Wear

First snow-storm

Stormy

Dark cloudy with chill N.E. winds.
Heavy rain through last night, light
snow fall this forenoon whitening the
ground & tree trunks. Clearing sky &
fast increasing cold at & after sunset.
Altogether a dreary & depressing day.

The garden was visited by my
son & daughter & their group of sparrows
was trained to attract my notice.

Spent entire day in Museum working
on the Chicago for bills. Billcliffe
called in forenoon to see about
restoring the ancient fence on Brook
Street and other old integrating woodwork.
Autumn seems to have gone and
winter begun. Such at least was my
impression when hurrying to the post box
soon after dark & it was confirmed by
reports in evening papers of heavy snowfall
& good sleighing in northern New England.

We had a prolonged Dictyola concert &
then reading aloud in hall this evening.

Cambridge

Ther . Wednesday, Nov. 15, 1916 Wea
24° min, 30° max.

A rather wintry day, sunny for the most part but with occasional intervals of cloudiness, chilly throughout & decidedly cold at noon - we, almost or quite windless - at least in our well-sheltered grounds; The thermometer on our back piazza did not register above 50° at noon. Snow all gone by night.

The Garden well-nigh birdless. I noted nothing there except a Crow, 2 White-throats & a few House Sparrows. George Dean reports seeing a brown Redpoll in the bushes near his barn this morning.

Spent day in Museum, working letters. Walter Dean called in P.M. when we examined & compared with real & color specimens the bag of a Harlequin Shrike. Charles Dean & Mr. Macdonald were here. They thought the bird a rough one & it was unquestionably a Redpoll.

Had my pair of mounted Heath-hens photographed this morning by Dr. Hornaday. He declares a pair of them is a reproduction of the one he is about to publish. This morning he took a walk alone. This morning

Cambridge. 28° min, 45° max. E. S. W. wind

Ther Thursday, Nov. 16, 1916 Wea
26° 3' min with dead Yellow-rump. 7° min.

Considerably more wintry than yesterday. Cold & rainy & we, & snow through day. Half an inch of snow fell last night but melted before noon.

In Garden 9 A.M. flock of Redpolls (8 or 10) feeding in top of Canada Birch in garden by Museum. Yellow-rump Warbler, flitting about actively in beech near tree feeding among Terminal twigs, chirping cheerily every now & then. 12 o'clock noon. A Jay & 3 Crows in Juniper.

One of the Crows, perched well up in a maple tree, holding something under one foot & pecking & pulling at it vigorously. At first I mistook the object for a small flattened bird's nest. But the Crow brought it personally into a nearby Cherry tree where, through my glass, I saw that it was a dead Myrtle Warbler whose bright yellow-rump & other colors & markings were plainly visible. As I could also see distinctly the Crow was chiefly engaged in pulling it freely out the 4 or 5 inches or so of a hole & tearing them aside. He then began to pull out the bird's body. Sometimes he drew his bill into his body but I failed to see him swallow or eat any of the flesh. At length he flung off what looked like the skin of the bird & followed. The bird was not even a couple of rods from his prize. That it must have been the selfsame Yellow-rump was clear to me. I saw him before he began to pull it out. I could not find the living one again.

Spent most of day working letters. Dr. & Mrs. Macdonald called at 4 P.M. staying half an hour. He reports "a number" of Esquimaux Curlew seen.

Cambridge

Ther

Friday, Nov. 17, 1916

Wea
Stormy

Dark cloudy & intensely chilly with light easterly wind. Snow flakes began falling fitfully in forenoon & came thicker and faster in afternoon until by evening there was a "white world" again although its surface was only thinly covered with damp snow.

In Garden I noted only a Crow (on wing) a Jay & a few House Sparrows.

Spent day in Museum, sorting letters & elaborating bird notes in Concord books. Chanced on an odd mistake, unnoticed all these years, in catalogue records - published ones of the Hudsonian list shot by me in Concord in October, 1870. As my original diary entry shows it was taken on Saturday the 29th of the month instead of on the 30th as subsequently reported in various connections.

Mrs. Almy called in P.M. to read letters from Helen Norton in France. We had usual Dictrola concert & reading aloud in hall, this evening.

Cambridge.

Ther

Saturday, Nov. 18, 1916

Wea
Fine

Cambridge Region bird notes.

Early morning cloudy. Sun shining by 9 A.M. Remainder of day clear, calm, mild, the snow that fell last night melting rapidly & all gone before sunset.

In Garden heard a Chickadee & saw a few House Sparrows.

Spent day in Museum working mostly on Concord bird notes. Two boys, 10 or 12 years old, Lovell Thompson & Charles H. Walcott, sons of near-by neighbors, called in P.M. to look at birds. They report seeing in Wren Orchard, last month, 3 Acadian Chickadees in company with several Black-capped ones. In the Fresh Pond marshes near the Glacials they found last June the Bittern, Least Bittern, Virginia Rail, Sora (abundant). A few Night Herons continue to haunt the shores of Fresh Pond. In this pond they have seen recently a ♂ Red-head & large numbers of White-throats & Gooseanders but only a few Black D. A Pied-bill Grebe has been haunting the Glacials. They have seen a Murre in Fresh Pond.

We spent evening in hall reading aloud & playing Dictrola.

Cambridge.

Ther
42° May

Sunday, Nov. 19, 1916

Wea
Fine

Clear, calm, mild & serene.

In Garden, heard a Hairy Woodpecker utter its rattling outcry three & saw 2 or 3 House Sparrows. It is surprising that so few birds appear in this neighborhood during such mild & windless weather as this of yesterday & to-day. The Gray Squirrels evidently enjoy it and are out in all hours despite Jimmy's disturbing presence. There are at least three of them, all of the largest size. I saw one collecting wine bars of the Lincolns again this morning.

C. & Miss Henders went to Church at St. Johns. I spent forenoon in Museum writing letters. Mrs. Sawyer, Miss Allen, George & Walter Deane dined with us on the last Pheasant & Partridge shot by me at Concord. The flesh of these two birds not only looked but tasted much the same.

Our guests departed at 4 P.M. Dill Dana called shortly after this & stayed about an hour. Victoria, J. May & I read along the way.

Cambridge.

Acadian
Chickadees.

Ther

Monday, Nov. 20, 1916

Wea

Odd looking fumes. Cape May N. Fair

Partly sunny but mostly cloudy.
Chilly with falling temperature towards eve.

In Garden. No bird of any kind noticed by me until 3 P.M. when there was what seemed to be an abrupt incursion on the part of 1/2 Goldcrest, and a very thick billed (heard only), a Fox Sparrow, 2 adult White-throats (both with undamaged breast plumage) and 2 Juncos. One of the last-named birds seemed to have a coal black head & neck and dark, rich chestnut back & flanks looking, indeed, like an adult ♂ Oregon Junco but I may have been mistaken in respect to this impression for he was seen only imperfectly, flitting through dense evergreens.

Worked on Concord note books all day. Nuttall Club meeting this eve. attended by 18 members including Dr. Bowditch, Oliver Lothrop, Owen Draper, Nat. Francis, both Allens, Judge Perry & Dr. Tyler.

I read Spencer Partridge article from Newbury N. S. A flood of Acadian Chickadees. Dr. Tyler reports. He & Fayou saw several of a flock in our dog in Belmont. Cape May Harbor this to-day.

Cambridge.

Shad caught daily in ocean off Rockport.
Ther Tuesday, Nov. 21, 1916 Wea
22°, 26° Woodpecker party in Garden Fine

Clear & cold with light N.W. wind.

Despite the brilliant sunshine there was a rise of only 4° in temperature between 7 a.m. & noon according to the thermometer on our back piazza.

A woodpecker gathering in Garden consisting of a handsome pair of Hairies & a ♀ Downy. At one time all three birds were together in the Gravenstein apple tree & later they appeared singly in the big Catalpa by the Museum, the trunk of which shows many recent peck holes probably made by these birds in quest of European moth larvae which have especially favored this tree of late. There were also in the Garden

2 Chickadees, an adult Peabody bird, a Junco & 4 House Sparrows, a Blue Jay & 2 Crows (seen on 20th inst.).

Spent day in Museum sorting letters

bird notes. Miss Emily Howard at lunch. Johnson, our Boston fish dealer, reports Shad caught daily now off Rockport & landed by him every morning. We had one for dinner for dinner to night. It was fresh & delicious. The Transcripts says they are catching them in in

Cambridge

Ther Wednesday, Nov. 22, 1916 Wea
20° min. Shufeldt's Juncos revisits garden. Fine

Brilliantly clear with keen, fresh N.W. wind.

Wintery cold in early morn, milder as day wore on.

The odd-looking Juncos seen in Garden on Nov. 20 reappeared there early this P.M. accompanied by 3 ♀ hyemalis, a ♂ & 2 ♀♀. Standing motionless in midches of E. garden path I watched all four birds come hopping along it, feeding busily, until they were within 5 or 6 feet of me. Being all the while afraid to clear sunlight & on perfectly open ground I wound them to best possible advantage and moreover was able to compare the peculiarly colored one directly with examples of both sexes of hyemalis in corresponding seasonal plumage. Thus compared the former bird looked somewhat larger than any of the others & was much more richly & conspicuously colored. I had a dull black

head & neck, coral black chest, variegous cinnamon flanks, back & caputula strongly tinged with chocolate brown. After viewing it for several minutes I went at once into the Museum & looked over respective skins. One of these that resembled it best (& very closely) was labeled Shufeldt's with long note by Robert Ridgway. Hence the stranger bird may be safely regarded as belonging to that race. Equally sure it was a ♂. Later still the 4 juncos with 2 shufeldt's. Shufeldt's came close under my nose to feed on rabbit feed that I scattered there. Besides them I noted 2 Goldfinches, 3 Chickadees, 2 Jays & a Titmouse, all about 2 P.M.

Spent day in Museum sorting our collected notes. Dr. R. L. Read to us in hall this evening.

Hudson River, also, for the first time as this season, in many years, then occur in the ocean near Rockport seems even more surprising.

Barnbridge - Concord - Cambridge.

Ther Thursday, Nov. 23, 1916 Wea
Stormy.

Cloudy & very warm with strong S.W. wind & heavy rain from noon to afternoon.

In Garden: Canada Nuthatch (2 on cherry tree), Shufeldt's juncos 3, with 2 Eastern juncos, 2 old Peabody birds & 15 House Sparrows, eating millet seed. Went out for them near Museum.

Concord (Farm): 1 Chickadee at Seth's, (15) Redpolls & a Cock Pheasant in Berry Pasture, 1 ♂ House Sparrow in Forsythia bushes.

Walter Deane came down to see the Shufeldt's juncos at 9 a.m. & had a good meal of him from these windows. He looked richer colored than ever before, I thought; - almost enough so for Oregonus.

Gilbert & I motored to Concord (10 a.m.) via Arlington, Lexington & Bedford. River frozen over completely at Carleton Bridge. Not a single bird seen all the way.

At Farm found Monahan & Capper at work. Paid them in full to destroy Wall in front of house completely. Country here & elsewhere looking. Walked in Birch Field in farm.

Motored to Concord & took 3.44 train back to Cambridge.

Cambridge.

Ther Friday, Nov. 24, 1916 Wea
54° max. A strong easterly.

Clear with boisterous westerly wind and slowly falling temperature which, however, was almost summer like through greater part of day & no more than seasonably cool at evening.

In Garden: Goldcrest & Blue Jay heard, Peabody bird (ad.) juncos, and about 15 House Sparrows, feeding on millet seed.

Working all day in Museum on Concord bird notes of last spring.

Shortly after luncheon there came a sharp rap at the door which I entered, Gilbert being away. Entered a tall, dark-haired, smooth-faced young man wrapped in a long light grey overcoat. He asked to see "my son" & when I denied ever having one he stared at me long & fixately with piercing eyes as if doubting such assurance, then he enquired if I were a sportsman adding that he & his father had killed 5 Peabody's on the last open day. Altogether he acted rather strangely. I learned later that what name none knew this self-same youth had called at the Cobb-Parkers, about 1000 some time ago, to see their horses & assuming to come from the American Express. I reported all this by tel. to Police Officer E. Mount to see this one. C. & I spent 10 minutes. I read over news & played bridge.

Cambridge

Ther Saturday, Nov. 25, 1916 Wea
Shufeldt's Junco Fine

Clear & cool with high N. W. wind.
 Unscathed by recent hard frost. The city
 lawns continue almost as vivid green as
 they were a month ago. One own particular
 one was thickened in spots with claudition
 (not hawthorned) blossoms when I last crossed
 it a few days since.

In Garden: A Chickadee, 2 Goldenrods,
 2 ad. Peabody birds, 1 House Sparrow, 5
 Juncos (2 ♂♂ & 3 ♀♀) and the Shufeldt's Junco (♂).
 All the Tringillinae birds just mentioned
 assembled in late P.M. to feed on millet
 that I put out for them in a tiny bed near
 my museum window.

Henry M. Spelman, who called at 5 P.M.,
 reports seeing an immense flock of Goldenrods,
 "hundreds of them" passing S. over
 his place early in the morning a few days
 since, their wings whistling loudly. I
 hear of very many in Fresh Pond & Lake.

Worked all day on Concord bird
 notes. Those made last spring nearly completed.
 Raining about & violent noise this evening.

Cambridge

Ther Sunday, Nov. 26, 1916 Wea
 22° min. Ruthven Deane comes with us. Fine

Clear & cold with strong N. W. wind;
 a harsh, blustering day out of doors.

In Garden: A Chickadee, Goldcrest (♀),
 Hermit Thrush (on ground under beech tree
 on lawn), Hairy Woodpecker (♀ in apple tree),
 Downy (heard), Blue Jay (heard), 2 Peabody
 birds (1 ad. in), 6 Juncos (2 ♂♂, 4 ♀♀),
 25+ House Sparrows - in all, 9 species.

The ever-shifting, numerical make-up
 of the Junco flock seems rather surprising.
 Although increased to six birds to day, the
 greatest number seen since Dec. 12th is did
 not include the Shufeldt's Junco. I hope
 he has not fallen victim to a black & white
 cat! Mrs. M. Millard's house has at least
 twice invaded the garden of late although
 once barely escaping Timmy's eager jaws.

Little writing in forenoon - somewhat
 interrupted by a call from Harry Spelman.
 He had Ruthven Deane, as well as Miss Allen,
 at dinner. He stayed on until 6 P.M. & I
 had a delightful talk with him. His right
 shoulder is very lame & has been for months.

Cambridge - Concord.

Ther Monday, Nov. 27, 1916 Wea
34° min 55° max Fair

Clear with blustering but not cold
S. W. wind & rising temperature.

In Garden: Hermit Thrush (flying from
under by my window in lawn evergreens),
1 Chickadee & 2 Goldcrests, Shufeldt's Titmouse
(2), Cassin's Titmouse (5 or 6), Peabody birds (2)
and a few House Sparrows feeding on seed
near by Museum as 7 o'clock. 2 Gulls on wing.
Spiny Tailed 304 Goldcrests near them
at N. E. end of pond below Pleasant Street

Concord Fair, Belmont Mass. 1916
5 grey-breasted Nuthatches eating bird seeds in Cedar Tree.
15+ Juncos feeding in stubble below orchard
5 in stable yard; 2 in pasture in
Brick Field (flushed away when juncos
were reported). Pheasants are thick in
deciduous of lawn.

Gilbert & I left Museum at 11.10 &
motored to Concord via Arlington, Mass.
& Bedford reaching Farm at 12.10. No
land birds - not even a Crow - seen on whole
way. Spent afternoon with Burbank & boys
in setting small pens (for Christmas greens &
winter covering), mostly in Brick Field.
Leaving at 4 pm home. Still green.

Concord - Cambridge.

Ther Tuesday, Nov. 28, 1916 Wea
48° max Fair

Forenoon sunny; afternoon only partly so
Strong S. W. wind; cool but not chilly.

At Farm: Crows cawing at sunrise. 3 seen
later, on wing. 3 Chickadees near Pulpit Rock,
25+ Juncos in stubble, others flying higher &
thru through orchard. One Tree Sparrow
with Juncos, another in Berry Pasture.
3 Starling "skipping" in tree top near
brick school house, Redpolls heard overhead
repeatedly but only a single one seen.

Spent most of day out of doors looking
after innumerable things with the help of
Burbank & George. We caught in the pen
and yesterday & covered birds of bushes with
part of them selecting ones at home & in
stable in Cambridge. Later Burbank
killed 4 young Turkey gobblers (10-12 lbs)
one for one Thanksgiving dinner, three to be sold
Monday & Cassius taking care of them in place.

Gilbert motored me to Concord today. I took
3.44 train for Concord. Spent evening
sat with me. He looked badly & complained of
migraine after he came home. (One page)

Cambridge.

Ther 48° min. 66 max. Wednesday, Nov. 29, 1916 Wea Fine

Sunny but hazy. Almost windless and the warmest day for weeks making our furnace-heated houses were high comfortable even with several windows opened wide.

Great numbers of small, yellowish moths on wing, entering our house after dark. They looked to me like those of the Coward house.

In Garden. Very tame Hermit Thrush in lilacs, Chickadee, Goldcrest, Blue Jay, Hairy Woodpecker & T. lutes heard calling; 2 Crows on wing.

The Striped Finch with 6 Eastern Finches, 2 Scrubby birds and about 10 House Sparrows feeding on millet seed by Museum on Hill. Spent most of day in Museum, sorting letters in A. U. working on Concord bird notes in T. U. Called up some wife office at Concord & asked to have some one sent to Fletcher place this afternoon to make sure that Mr. Mason is relaxing is rightly treated. The millman man I talked with promised to have this done.

Miss Stinson bunched & Irving Fuller dined with me. Irving Simonson called for Bangor by 9 A. M. train.

Cambridge.

Ther 64° max. Thursday, Nov. 30, 1916 Wea Stormy

Dark cloudy with incessant heavy rain which began about 10 o'clock last night. Unseasonably warm in early morn but cooler towards night. Grass on our lawn very green.

In Garden: Hermit Thrush seen flying into lilac near of house; Dorsey heard calling; Striped Finch with 3 Eastern Finches, 2 Scrubby birds & 7 or 8 House Sparrows feeding on millet near Museum.

Read morning paper in office & breakfast and then spent two or more hours in Museum reading & working notes.

We had as guests at our Thanksgiving dinner Mr. Bennett, Mrs. Sawyer, Mary Brannagh, Jennie & Emily Chapman, Mrs. Cobb & Irving Fuller. A young turkey gobble roared at our farm & weighing 12 lbs was served & proved doubly delicious. All our friends departed by 3 P.M. Mrs. Bennett has evidently not recovered as yet from his recent illness. He seemed very unlike his normal self.

C. & I spent, looked among things a lot of new or recent records. We shall keep few, but of which are few of the last winter.

Cambridge.

Ther

Friday, Dec. 1, 1916

Wea
Fine

Clear & rather cool yet not frosty.
Light westerly wind. City lawns mostly
green. Little if any frost left in ground.

In Garden. A Goldcrest, a Blue Jay
and some 25 or 30 House Sparrows.
This last-named assembling in flocks
in millet seed put out within the
hope of attracting this finches, none
of which reappeared. Nor were the two
Peabody birds seen.

Spent most of day working on Concord
field notes. A. C. Bent called in P.M.
to measure specimens of Black-throated
& Pacific. Borne in my collection.
He is inclined to consider my supposed &
recorded Islands Guillemots from Cape
White on immature Black Guillemots.

C's friend William Hayward dined
with us & spent the evening.

Cambridge.

Ther

Saturday, Dec. 2, 1916

Wea
Fine

Clear & cool with keen northerly wind.

In Garden - 4 Junco (8999), 1 Peabody bird
(adult), 20+ House Sparrows.

Spent most of day in Museum
working on Concord bird notes.

Walked down to Mus. Comp. Tool.

at 11 A.M. Had a good talk with
Sam Henshaw but saw no one else
except Orin Bump & him I met on
the way down driving his motor car
& accompanied by his wife.

Returned in time to lunch with E. R. S.
who came back from Bangor last night
reaching here at 8. In the morning
C. lunched at Twentieth Century Club with
Fred. Walker & heard Tom Osborn there.

Tarver & Tyler called at 3 P.M. to
see the Shufeldt Junco but were disappointed
in this for he did not appear in the Garden
this day. Nor did the 4 Eastern Junco seen
until afternoon. C. spent evening sleeping in
her room. E. is in Acad. to see in hall.

Cambridge.

Ther

Sunday, Dec. 3, 1916

Wea
Fine

Cloudless, windless, just agreeably cool with dry, crisp air & mellow sunshine. City lawns still green. No frost left in ground or ice in Charles River. Hence there is little or nothing in the general aspect of our environment here to indicate that autumn is past & winter begun - at least according to the calendar.

In Garden: 2 Junco & 20+ House Sparrows came in eat millet seed on the tulip bed, & a Teabody bird cackled at sunset in the rhododendrons near my study windows & several Crows flew over, cawing loudly, in mid-afternoon. That was all the birds I noted.

Writing letters through forenoon & covered bird notes in late afternoon. Miss Allen our only guest at dinner. After it I played for her several of our most beautiful recent records which she greatly admired. B. I. S. Band about 6:30. From 7:30 to 9:30 P.M. I can hear a little Victrola music afterwards.

Cambridge.

Ther

Monday, Dec. 4, 1916

Wea
Dull

Cloudy with a little fine & misty rain at intervals. Mild & windless.

In Garden. A Chickadee, Teabody bird, 2 Junco, about 10 House Sparrows, 2 Jays, 2 Crows (on lawn), & a Downy ♀.

Spent day in Museum working on record notes. N. H. Club meeting this evening attended by only ten or a dozen members. Annual election of officers all those serving through past year being re-elected. No regular paper but many interesting field notes, testimony especially to the exceptional member & variety of irregular member bird visitors. Acadian Chickadees reported from various places. Judge J. J. & Mr. May saw 10 or a dozen at Springfield & Mr. Hoxsey about as many near Cohasset. Pine & Downy Grosbeaks, Redpolls & Pine Siskins, Crossbills of both species are all to be found in suitable localities near Boston at the present time.

Cambridge

Ther

Tuesday, Dec. 5, 1916

Wea
Mixed.

Partly sunny but mostly cloudy
with occasional light showers of
fine rain.

In garden: in usual dearth of
birds only a few House Sparrows
seen and a Junco & a Crow
heard; also a White-bellied Nuthatch in the trees.

At 10 A.M. P. & E. R.S. motored with
me to Lowell Street Schoolhouse where
we cast our votes at Annual City
election. in which my little interest has
been taken this year.

Devoted the remainder of the day
to watching my wife, a tedious
occupation which gave me little
satisfaction although it has become
imperatively necessary the present work
having been drawn almost 20 years ago.
since when conditions have undergone
many changes that affect business.

Harry Baithall called at 8 P.M.
staying until 9.30. We read a little after
he had gone.

Cambridge & Concord.

Ther

Wednesday, Dec. 6, 1916

Wea
Fine

Clear & cool but not frosty. Raging N.W.
wind driving snow masses across sky.

Leaving Cambridge at 10.04 A.M. Gilbert &
I motored to Concord via Arlington, Lexington,
Bedford & Carlisle Bridge, reaching Farm at 11.04
Five crosses the only birds seen along the way.
We were chilled through by the keen &
tempestuous wind, although warmly clad &
despite a temperature 10° above freezing.

Found Mosher working on wall at Titicut
place where he had almost finished along the
Massachusetts River. He was in the
old farm house by a blowing fire.

After that went with George to the Birch
wood lot & afterwards down to Concord (the house,
all the calls now dead on the right bank)
in the last half. Saw 15 Chickadees,
2 Goldcrests, 1 Redpoll, 2 Partridges & a Barn
Owl & heard a Downy W. The Owl started almost

over me from a tall fallen pine on Knoll at P.E.
corner & Birch. It flew heavily off through trees
with noise to light its legs and feet showing for
the first few rods after it left its perch, but it
finally drew them up among its feathers.

Motored to Concord & left before 11.00 taking 3.44
train back to Cambridge.

Cambridge - Boston

Ther
42°

Thursday, Dec. 7, 1916

Wea
Fine

Clear & cool with fresh N.W. wind.
no frost in ground or ice in even the
shallowest pools. City lawns continue very
green.

In Garden. 2 Chickadees, a Peabody bird (ad)
a House Sparrow, a Jay & a Downy heard.

Wrote three letters after breakfast & then
went to Boston, reaching one office at
11.30 and remaining there most of the time
for next four hours, talking with Arthur,
Galloupe & Darling. Also saw Mr. Brown
at 53 Devonshire St. leaving with him a copy
of a new will I desire to have executed, which
he brought, later, to one office & discussed with
me. Lunched at Martini's, called at Thorpe
& Martini's for a 1917 diary & then
returned to Cambridge by a crowded
subway train. Met Arthur Robbins in it
and Dick Dana in Devonshire Street.
Home by 5 P.M.

Cambridge

Ther

Friday, Dec. 8, 1916

Wea
Fine

Reluctantly clear and almost warm in
the cool, dry & bracing but not cold
enough for frost, of which there has been
no recent indication, strange in Jan.

In Garden: Downy W. heard, Chickadee jumping over
seed.

On lawn: 6 big, glossy black Crows feeding
together on turf, into which they thrust their
bills, also stalking in under a spreading
beech tree, where they looked fallen leaves about
scrambling under them for food. As soon
I watched them E. R. S. suggested that as
some one once said of Frank Saurborn they
had an "upward gaze of their own".

A Gray Squirrel kept approaching & making
abrupt rushes at them, to avoid which
they would rise as wing & fly a few yards.

Spent most of day in Museum
working on Concord notes. C went in
town to Dr. Pauls but returned in time
for lunch. He had reading along &
between music in the evening.

Cambridge

Ther

Saturday, Dec. 9, 1916

Wea

Sparrow hawk pursues Flicker, Dull

Sun shining feebly on hoar-frost-coated ground in early morn but soon obscured by gathering clouds from which descended a fine drizzling rain still later in the gloomy day.

From an eastern-facing window of our house I noticed, about noon, a Flicker in the top of an elm. A few seconds later it dashed off hurriedly, closely pursued from the very start by a ♀ Sparrow hawk who, however, failed to overtake it, doubtless because not caring to do so, and after chasing it across the lawn whirled promptly and perched on the very topmost twig of the big horn chestnut that stands in the corner of Brattle & Garden Streets, remaining there for several minutes.

Besides these two birds I noted, during the day, only two others, a Jay & a Dowry, both heard calling in the jungle.

Worked all day on the bird notes made at Concord Lake Spring; practically finishing the enlarged transcript of them. Reading aloud & backslat music in hall this evening.

Cambridge

Ther

Sunday, Dec. 10, 1916

Wea

Fine

Bear & cool with light westerly winds. Ice in sheets of white ice floating in the sunlight when yesterday's rainfall had collected in shallow pools.

In Garden 4 Chickadees (one at snail), a Goldcrest (faded), 3 or 4 Juncos, a Dowry (in Lindens), 3 Grosbeaks (on wing).

Wrote letters in Museum after breakfast & again in late afternoon. Leaving the house at noon I walked up Brattle Street to Edmund & meeting Mr. Scudder there turned back with him & we kept on together as far as Mason Street where I returned alone. Additions to old Nichols house about completed. It has been painted brown with white trimmings chimney and front fence which has a new gate & gate posts set in from sidewalk & very pleasing. Mrs. Sawyer & Miss Allen dined with us. I escorted the former to her home at 3 P.M.

E. R. S. read aloud to C. & me after supper & I plumped some hymns on backslat.

Cambridge - Boston

Ther

Monday, Dec. 11, 1916

Wear
Mist.

Forenoon sunny & calm. Clouds gathering in afternoon. Rain falling briefly not long after dark.

The Garden apparently well-nigh deserted by birds. Noted there only a Chickadee (heard), a Downy & a few House Sparrows.

Wrote letters for a couple of hours after breakfast and then went to Notman Studio, Harvard Square, to be photographed - for the first time by a professional in many years. More than a dozen plates were used & the light was good. Then I went by subway to Boston & our office where I saw Arthur & Gallagher. Lunched at Marlboro & called at 53 Devonshire St. where I saw Mr. Canine & Mr. Brown & requested the latter to change, somewhat, a clause in my will relating to the disposition of my books. Finally went to Vendome Hotel & engaged rooms for our Christmas there. Home by 6 P.M. Usual reading aloud & recitation commenced this evening.

Cambridge.

Ther

Tuesday, Dec. 12, 1916

Wear
Stormy

Dark stormy with incessant rain, driving rain which changed to snow by 3 P.M. but melted as it fell: scarce whitened the ground when it finally ceased after dark. Altogether a very cheerless sort of day & also an uncomfortably chilly one and of days.

In Garden: 1 Jay & a Chickadee heard, several House Sparrows seen.

Devoted entire day to letter writing - of which there seems never an end. Gilbert went in town for records bringing out about twenty mostly by Paul Reimers & by the Trinity Choir. We tried the former this evening and found among them three or four of exceptional beauty. There were also a few duplicates of records already in our collection which I ordered to be sent to Dan or Margaret at Christmas.

Cambridge

Ther Wednesday, Dec. 13, 1916 Wea
24°, 34° Fine

Clear and frosty with strong, keen N. W. wind. Ground powdered lightly in places with snow of which there is more than an inch at Concord, according to Percy.

In Garden. 2 Junco's & 7 or 8 House Sparrows eating mallin seed; a Chickadee, Jay, Worming & Crow, heard in jungle at various times. A Sparrow which I took to be a White-throat but failed to see was chirping excitedly in the lilacs at noon.

Worked all day on transposition of bird notes from monthly lists in the back of this diary to the larger "Garden" book in which they are brought together under species, for more convenient reference. permanent record.

Alice Stone dined with us. I called at the Fairchilds' after supper taking the handsome tail of the male Pheasant shot at Concord for "Concord Sally" who seemed pleased with it.

Cambridge

Ther Thursday, Dec. 14, 1916 Wea
23° Fine

Clear and almost windless yet a rather wintry. Seemingly day because of the intensely chilly air & wan sunlight.

Bird life in Garden at low ebb now. Heeded a Chickadee and saw several House Sparrows but noted nothing else. The Goldfinches, Junco's, Woodpeckers etc. that appear only occasionally must have other nearby haunts that suit them better or else a range so varied or extensive that they cannot visit us either regularly or very often. They seem most likely to be in when the weather is calm & mild but sometimes come when it is blustering & cold or even blowing.

Spent day in Museum working on Concord bird notes made this autumn. Sally Dearborn lunched with us. I have not seen her before for a long time. Mrs. Almy called at 4.30 to read to us letters written by Helen in France & by Alice in Mexico - a. b. 1000. in London. I had almost finished my...

Cambridge

Ther

Friday, Dec. 15, 1916

Wea

First heavy Snow Storm

Winter here at last. Snow flakes, beginning to fall at breakfast time, came thick & fast not long afterwards until by noon the ground was carpeted with them an inch or more in depth and by 9 P.M. - when the storm ceased - to a depth of some five or six inches. Hereafter we must expect slippery & slushy side walks and the penetrating chill of snow-cooled air - both of which I dislike exceedingly.

In the Garden I noted only two birds a Chickadee that came twice to a lump of suet suspended within a yard of my study window & an immature Whit-throated Sparrow eating dead Nighthawk berries, in the berries that overspread the Shoebush that had fallen further away.

I sat all day long at my desk in Museum writing letters & corresponding bird notes from, clearing records made at Concord during the autumn. C. & S. R. S. kept the thing here this evening. I passed it along, ready to move it.

Cambridge

Ther

Saturday, Dec. 16, 1916

Wea

South of Prof. Munsterberg.

Clear & cold with harsh N.W. wind. Everything buried beneath new-fallen snow a foot in depth, Percy thinks, but no more than 8 inches, according to the newspapers. Gilbert reports it so badly drifted in Concord roads that Burbank had difficulty in getting to town with our supplies this morning. It has no less completely than abruptly replaced autumnal by wintry conditions throughout the land. Rather many sleighs passing along our city streets with pleasingly tinkling bells. Hares came very all come from in these days & a superabundant motor vehicles like fallers were not out in anything like their usual numbers although apparently unimpeded by the snow.

Only a solitary Chickadee seen & a Downy Woodpecker, in the garden.

Wrote letters & bird notes. Mr. Lincoln, the photographer, called at 10 A.M. to show me some beautiful "winter" views. Harry Spelman at 5 P.M.

Prof. Munsterberg dropped day for class room this afternoon.

Cambridge.

Ther

Sunday, Dec. 17, 1916

Wea
Fine

Clear & cold with keen northerly wind.
No melting snow, even in sunniest nooks.

In Garden, a Chickadee at Suet; a Goldcrest heard; an adult Peabody bird feeding on miller seed with 40+ House Sparrows in spot where ground has been cleared of snow; 2 Purple Finches (new-comers) in plain gray fl., eating fruit of Parkman's apple with which the tree is most abundantly supplied & some of which has hitherto been touched by birds or squirrels before this autumn; a ♂ Hairy Woodpecker, with red on nape divided into two widely separated lateral spots, hammering loudly at bark of Catalpa tree by Museum; 3 Crows on wing, cawing vociferously.

Spent forenoon in Museum working over rough draft of new soil drawn by Mr. Brown & revised from him yesterday. C., who heard & read this morning, heartily approves it.

Left field & the Spelman's climb with bird on a Redwing gotten from the Farm. We all thought it uncommonly good. They stopped until 4 P.M. & saw several others after that. Reading aloud & Victoriana Museum (the evening).

Cambridge - Boston

24

Ther
/14°

Monday, Dec. 18, 1916

Wea
Fair

Forenoon sunny; afternoon cloudy & chilly. Very cold last night. Almost windless through day. Fine sleighing throughout Cambridge. Horse-drawn vehicles on runners apparently outnumbering motor ones, even in Boston where, however, the horses were constantly slipping & not infrequently falling, the streets were so very slippery with snow & ice.

In Garden: a Downy heard; a Purple Finch seen in Parkman's apple tree.

Went in town at 10.30. At office most of time from 11.30 to 3. Mr. Brown called on me there at 2 P.M. to talk over draft of my new will in which we made a few changes. We also opened & read C's will (1913) at his request & I brought it out to her afterwards. Saw Arthur, Gullamer & Darling. In lower office sold at 65 3/8 Gen. shares U.S. Rubber, Common, bought several years ago at 46. Lunch at Marston's. Left office about 3 & stopped at Harvard Coop. on way out to buy Christmas cards, shoes, overcoat etc. Walked up from Square with Harry Spelman & R.S. went to Mrs. Edna's apartment party on 8. I read aloud & played Victoriana to G., "Cutting" the Northall Club meeting.

Cambridge.

Ther
20°, 30°

Tuesday, Dec. 19, 1916

Wea
Dull

Cloudy skies and cold more penetrating than the actual temperature seemed to warrant. Still confirmed the newspaper prediction of an impending snow storm which, however, has not as yet materialized. The snow that came last Friday remains everywhere unmelted and the sleighing is excellent.

Garden Birds. Only a Chickadee heard a few House Sparrows seen.

Wrote letters in forenoon, Concord bird notes in afternoon. We passed the evening, as usual, in the front hall about a cherry open fire, listening to reading aloud by S. R. D. and afterwards to music from the Victrola.

The aquaria are all teeming with interesting aquatic life representing the customary assortment of fishes, snails, tadpoles etc. The bulbs promise well but only "Nepesula volutaria" have blossomed as yet. My old aralia already has a few blossoms.

Cambridge.

Ther
20°, 32°

Wednesday, Dec. 20, 1916

Wea
Fine

Brilliantly clear with little or no wind and crisp, dry air, seasonably cold in early morning, rather chilly at evening. Altogether an enjoyable winter day of "weather-breeder" type, however.

Garden Birds. 2 Purple Finches in gray fl., eating seeds of Parkman's apple within a yard of Gray Squirrel similarly engaged, a Jay screaming; about 8 House Sparrows flitting to & fro.

Spent entire day in Museum, arranging for Christmas things, writing letters & compiling Concord bird notes. I have returned to Bedford meeting Burbank there & bringing back four fowls which I had selected & left for him to care for Christmas time.

"We Dine" met at Batchelder's this evening. Gonyour present except Jackson & Bent - who has just resigned.

Usual delightful time. I sat at table between Jeffries & Goodale. Afterwards talked with all. Home by 11.30.

Cambridge.

Ther Thursday, Dec. 21, 1916 Wea
Annual Serenade by Buckingham
School Children, under our conductors

Dark, cloudy & intensely chilly with a little fine rain freezing on everything it struck. About 2 inches of soggy snow fell last night. Sidewalks very dangerous.

Garden Birds. Only a Titlark & a Jay noted. Neither stayed long. House Sparrows apparently altogether absent. So also were the Purple Finches from the Parkman's apple tree, although a Gray Squirrel was eating its fruit. Perhaps his presence accounted for their absence. The Peabody bird has not been seen since the 20th.

My photographs, taken by Norman came this morning and seem very satisfactory. There are three dozen from four different negatives. I spent entire day signing, dating & otherwise preparing these to be sent away, most of which were mailed by Gilbert when he went home at 6 P.M.

Our evening spent as usual with reading aloud by C., followed by Gilbert's poem

Cambridge.

Ther Friday, Dec. 22, 1916 Wea
First heavy rainfall for many weeks. Stormy

A most gloomy & depressing day, dark cloudy & also densely foggy, with heavy rain falling almost ceaselessly flooding streets & sidewalks with intermingling water & slush, settling the snow everywhere to much below its former level and bringing to an end the perfect sleighing conditions of the past week. Violent N.W. gale to night, wind velocity 80 miles (fide Weather Bureau). In Garden: a loud-screaming Jay, half-a-dozen or more chattering House Sparrows; a Chick-throated Sparrow uttering its metallic chirp at nightfall somewhere very close outside my study window. These were all the birds I noticed.

Devoted entire day to writing inscriptions on Christmas cards & packages. My recently-taken photographs were nearly all disposed of in this way. C., E. R. S. & I opened gifts this evening. I had only a few but more are likely to come later. We were all very tired.

The Buckingham School (last seen last by many) is in the snow, standing with teachers as at 8 P.M.

Cambridge - Boston

Ther

Saturday, Dec. 23, 1916

Wea

Fine

Clear and cool with violent
N.W. wind, dying away at nightfall

Garden birds. A Chickadee, a
Pied-billed grebe, a Kingfisher, a Flicker
(3) eating Parthenon apples & about 80
House Sparrows.

Spent most of day in house &
kitchen, writing letters & mulling
various preparations for our
Christmas day in Boston, N.Y.
& E. N. S. & visited in afternoon.
I followed by delivery call in
night fall. We have a pleasant
suite of rooms at S. E. corner for the
ladies & a back room for me, all
on the 2nd floor. The hotel
seems attractive in every way
& the food unusually good.
E. N. S. & I dined together at 7.
C. was too tired to come down.
I scraped acquaintances with a Mrs. Worley
in smoking room, very agreeable man

Boston (Hotel Vendome)

Ther

Sunday, Dec. 24, 1916

Wea

Fair

Sunny for most part & seasonably
cool with moderate northerly wind

Spent most of day in the hotel
but called on Frank Manning at
3 P.M. staying about an hour.

Miss Holman & Miss Harkness, coming
from Lancaster, joined us early
in forenoon. C. has developed a
throat cold & did not venture out
one day but spent most of it in
bed although with us at breakfast
& luncheon in the dining room.
& passed several hours in smoking
room talking with various other
guests. Word of this is that
Dr. Hugh Cabot said in his hearing last
night that he (Cabot) recently met a
German prisoner in France who was
with him at Harvard & who refused to
join the belief that England was not
wholly overrun by Germans & in their
possession.

Boston (Hotel Vendome)

Ther
34°

Monday, Dec. 25, 1916

Wea
Fair

Light snowfall over night & scattered flakes still floating earthward as late as 8 a.m. Soon after that the sun appeared & shone through most of day which was calm & not cold. Altogether very admirable & pleasing conditions for Christmas. We passed it in the Vendome, E. R. S., who dined in Cambridge, being the only one of our party to go out all day. We were joined at dinner by Frank Manning & Miss Swasey who stayed an hour after it. Harry & May Cunningham called in mid P.M. After they were gone we had a Victrola concert for an hour or so. Another concert by the Van Vleet Orchestra Club given in the hotel parlor & lasting from 7.15 to 7.15 P.M. was greatly enjoyed by us all. To me it seemed the most beautiful one I have ever listened to anywhere. After it I had a late supper & a talk in smoking room with Mr. Bailey.

Boston - Cambridge

Ther
18°

Tuesday, Dec. 26, 1916

Wea
Fine

Clear & cold with fresh N.W. wind

In Garden - White-throated Sparrow

heard singing after sunrise

Hortland Park. Flight call of Redpoll heard near head of Lower Sparks St.

We had breakfast together at the Vendome & separated soon afterwards. C. & E. R. S. motored out to Cambridge in a Chas. W. Garage car which started, somehow, before chauffeur was in & came near running to smash across Cambridge St. Sent word for inability to stop in time to avert that. I went to our office & examined thru most of time until 3.30 P.M. Signed all the quarterly checks & saw Arthur for last time, probably, as he leaves Boston for Porto Rico on Friday. Lunched at Marston's. Home by 5 P.M. wrote letters & checks until 5. J. H. Wood called at 5.10, saying half an hour. C. then coming in. Then when to read record of 1916.

Cambridge.

Ther Wednesday, Dec. 27, 1916 Wea
Stormy

Dark cloudy with sleety rain
freezing instantly wherever it struck
on board, brick or stone sidewalks,
rendering these exceedingly perilous to
travelers save where they were kept
liberally coated with sand or ashes.
Day light began to fail as early as 3 P.M.
after which I had to ~~use~~ ^{use} ~~small~~ ^{use} ~~gas~~ ^{use} ~~light~~ ^{use}
electric light.

Garden Birds. A Chickadee, a White-throated
Sparrow (seen in bushes by Keston steps
at 9 a.m.), a ♂ Flicker eating Redman
apples. Several House Sparrows & a
single Robin too.

Spent day in Museum writing
acknowledgments of Christmas gifts.
We have had less of these than
in former years & none of value
proper, i.e. special value or interest
but pretty Christmas cards from
old friends have come plentifully.
C. kept to her upstairs room where was
all sat & read or looked this evening.

Cambridge

Ther Thursday, Dec. 28, 1916 Wea
Dull.

Another gloomy day with densely
clouded sky from which light, driving
rain fell occasionally. The clouds thinned
at sunset when the temperature fell
decidedly & a cold northerly wind began
to blow.

In Garden no birds seen or heard save
House Sparrows.

Spent day in Museum writing
letters and cheques in payment
of December bills.

Gilbert went in town and brought
out a lot of Victor records selected
from the January list. We played
them all this evening but found
the majority undesirable while the
half dozen that will be kept include
only two that are especially good.
Among them repeat are one sung
by Gluck, another by Homer, a third
by Gluck & Homer, all of which
found disappointing.

Cambridge

Ther Friday, Dec. 29, 1916

20°, 26°

More Camb. Reg. bird notes
from Lovell & Walcott

Wea
Fine

Clear & cold with keen N. W. wind.

Garden birds: A Chickadee, a ♀ Junco seen
at sunset in rhododendron within a yard of my
study window; a Peabody bird (heard chirping
just before the Junco was seen & apparently in the
same bush); half a dozen or more House Sparrows.

My diary record for yesterday should have
mentioned that Lovell Thompson & Charles F.
Walcott called at 3 P.M. to tell me that they
had seen two ♀ & a juv ♂ Hooded Mergansers in
Spy Pond on Dec. 2 & one on the 8th; also
two Rusty Blackbird, with very "rusty" bodies,
feeding on the ground among bushes at the edge
of Beaver Brook where it leaves Rock Meadow,
on Dec. 23 and a few of about 18
Snail in that same locality on Dec. 26.
They seem truthful lads whose accuracy of
statement concerning their observations I
have no inclination to doubt.

Spent day in Museum writing letters
& posting up bird notes in various
second book. I. Confined to my room
by a cold & O. R. S. at her place all the
evening which I passed alone in the "den".

Cambridge.

Ther

Saturday, Dec. 30, 1916

Wea
Fine

Clear & cold with brisk N. W. wind.

Garden birds. A Chickadee eating
... White-throated Sparrows, flocking
at sunset, with lisping chirping
(similar to that of so many other
of snows), through the rhododendrons
just by my study window; half a
dozen or more House Sparrows seeking
bread in the clothes yard; a ♂
Chickadee perched in the beech near
tree near where its trunk has recently
been stripped of bark doubtless by a
weaver & probably by his identical
bird although his guilt in the matter
cannot be more than assumed at
present. Now is the trunk likely to
be injured further by him or any other
fox I had Percy envelope it in wire
mesh netting this afternoon.

Spent day in Museum compiling
& elaborating field notes made at
Concord during the autumn
C. Oates & her aid. She came down
stairs this evening & listened to Victor's music.

Cambridge.

Ther
8° 25°

Sunday, Dec. 31, 1916

Wea
fine

Cloudless & windless. The
coldest morning of the winter thus
far. Temperature rising slowly through day.

Garden birds. A chickadee in snow;
6 Purple Finches in gray plumage, at first
in willow by Museum gate, flying thence
to old red cedar a few yards off & eating
its berries as birds of the same species used
to do when I was a boy & sometimes
caught in a wire trap cage placed on
the ground beneath this venerable tree;
a White-throated Sparrow among the
rhododendrons; 3 juncos (♂ & ♀) running
over snow close to Museum, pecking at seeds
of *Junia* shells rising above the drift,
half a dozen or more House Sparrows.

Wrote letters in Museum during A.M. &
late P.M. The Fairchild Cousins, Lucy,
Sally & Gordon & charming Kitty Frick were
our guests at dinner. C. did not have her room
all day. Harry Forbes called at 4 P.M. & is very
upward of an hour & looking over much of
interest about his recent experience in Sweden.
I called on the Longs at 8.30 to see them
with their room and told us some interesting

Birth Days of "We Diners"

Memoranda

C. W. Townsend	Nov. 10, 1859
Goodale	Jan'y 22, 1868
C. F. Batchelder	July 20, 1856
R. Thaxter	Aug. 28, 1858
Rand	" 22, 1859
W. Deane	Apr. 23, 1848
H. M. Spelman	Nov. 5, 1861
J. Barbour	
A. C. Bent	Nov. 25, 1866
W. A. Jeffers	Feb. 13, 1856
R. T. Jackson	July 13, 1861
W. Brewster	" 5, 1857

Of other People

C.	Aug. 31, 1844
E. R. S.	
Margaret French	Aug. 3.

Memoranda

Memoranda

Birds in our Garden, Cambridge.

CASH ACCOUNT. JANUARY.

Received. Paid.

1. White-Thr. Sp. 2⁵ in 3ⁱⁿ 4^{do} 5^{do} 6^{do} 7⁸ in 9¹
2. Blue Jay 2⁴ 8¹ 12¹ 15^{had} 17¹ 19¹ 25² 27²
3. House Sp. 2³⁰ + 3¹⁵ + 4³⁵ 5³⁰ 6¹⁵ + 7²⁰ + 8³⁰ + 9²⁰
- ✓ 4. Chickadee 3^{hd} 5^{at} 6^{at} 8¹ 10^{hd} 15¹ 18¹
- ✓ 5. Crow 3ⁱⁿ 4^{hd} 8^{hd} 19¹ 20¹ 22³ on 23²
- ✓ 6. Downy 4^{hd} 6^{at} 8^{hd} 11^{hd} 16^{at} 17⁸ 19⁸
7. White breasted Nuthatch 6⁸ at 26¹ ^{first song} ^{gave station} ^{at 8 am.}
- ✓ 8. Red " " 6^{at} 16¹ heard 22⁸ at
- ✓ 9. Robin 7⁸ ^{the 9 calling} ^{nightshade fruit}
- ✓ 10. Flicker 7⁸ 12¹ ^{2nd lady's} ^{apple.} 14¹ 17⁸ ⁸⁸⁸ in Papple ^{also feeding pine tree}
11. ? Evening Grosbeak ? 8⁴ [7 3 ^{Looney St.} ^(S. Thompson)]
- ✓ 12. Golden Crest Kinglet 9¹ heard 25² ^{in garden} ^{fruit of tree.}
- ✓ 13. Hairy Woodpecker 19⁸ in apple tree. with 8⁴ Downy 21⁸ do.

CASH ACCOUNT. JANUARY.

Date. 24⁸ 25² in 26⁸ in 27⁵ in 28^{hd} 29^{hd} 30^{hd} 31²

10¹ 11¹ 12¹ 13¹ 14¹ 15¹ in 16¹ 17^{hd} 18ⁱⁿ 21³ in 22^{hd} 23³ in

28² x 29¹ 30¹ 31² 22¹² + 23¹⁰ + 25¹⁰ + 26¹⁰ + 28¹⁰ + 30²⁰

10³⁰ + 11¹⁰ + 12²⁰ + 13¹⁵ + 14¹⁵ + 15¹² + 16²⁰ + 17¹⁵ + 18²⁰ + 19²⁰ + 20²⁰

19¹ 20¹ 22¹ at 23¹ 25¹ 26¹ at 28^{hd} 29^{hd}.

20⁸ at 21⁸ 22⁸ at 23⁸ in 24^{hd} 25¹ 26^{hd} 31^{hd}

30⁸ at 31^{hd}

25² 30⁸ on board walk near sweet tree when pair of S. car. there.

19⁸ 21⁸ calling 28⁸ on ground 29⁸ calling 31^{hd}

Birds in our Garden, Cambridge

CASH ACCOUNT. FEBRUARY.

no.

Received.

Paid.

- ✓ 1 Chickadee 1^{hd} 3^{hd} 6^{hd} 7^{hd} 9^{hd} 10^{hd} 14^{hd}
- ✓ 2 White-throat 5^{hd} 2^{hd} 3^{hd} ^{1 in eating} ^{night} ^{4^{hd}} ^{5^{hd}} ^{6^{hd}}
- ✓ 3 House Sp. 1^{hd} 4^{hd} 2^{hd} 10^{hd} 3^{hd} 40^{hd} 4^{hd} 30^{hd} 5^{hd} 12^{hd} 6^{hd} 30^{hd} 7^{hd} 20^{hd}
- ✓ 4 Blue Jay 1^{hd} 2^{hd} 4^{hd} 6^{hd} 9^{hd} 10^{hd} 13^{hd} 15^{hd}
- ✓ 5 Flicker 1^{hd} 5^{hd} ^{1 in eating} ^{7^{hd}} ^{8^{hd}} ^{10^{hd}}
- ✓ 6 H. Gull 1^{hd}
- ✓ 7 Downy W. 3^{hd} 5^{hd} 7^{hd} 11^{hd} 12^{hd} 13^{hd}
- ✓ 8 Crow 3^{hd} 4^{hd} 6^{hd} 12^{hd} 15^{hd} 19^{hd}
- ✓ 9 White breasted Nuthatch 13^{hd} 29^{hd}
- ✓ 10 Robin 22^{hd} 23^{hd} 29^{hd}

CASH ACCOUNT. FEBRUARY.

Date.

Received.

Paid.

- 15^{hd} 23^{hd} 25^{hd} 26^{hd} 29^{hd}
- 7^{hd} 8^{hd} 9^{hd} 10^{hd} 11^{hd} 13^{hd} 14^{hd} 15^{hd} 16^{hd}
- 8^{hd} 15^{hd} 9^{hd} 20^{hd} 10^{hd} 30^{hd} 11^{hd} 20^{hd} 12^{hd} 15^{hd} 13^{hd} 14^{hd} 17^{hd} 20^{hd} 23^{hd}
- 16^{hd} 17^{hd} 18^{hd} 20^{hd} 22^{hd} 23^{hd} 24^{hd} 26^{hd} 27^{hd}
- 11^{hd} 13^{hd} 17^{hd} 22^{hd} 23^{hd} 29^{hd}
- 15^{hd} 19^{hd} 22^{hd} 25^{hd} 26^{hd} 28^{hd}
- 20^{hd} 21^{hd} 22^{hd} 23^{hd}

Birds in our Garden, Cambridge

CASH ACCOUNT. MARCH.

- ✓ 1 Robin 1 ♂ 5 ♀ 4 ♂ 6 ♂ 7 ♂ 8 ♂ 9 ♂ 10 ♂ 11 ♂ 12 ♂ 13 ♂ 14 ♂ 15 ♂ 16 ♂ 17 ♂ 18 ♂ 19 ♂ 20 ♂ 21 ♂ 22 ♂ 23 ♂ 24 ♂ 25 ♂ 26 ♂ 27 ♂ 28 ♂ 29 ♂ 30 ♂ 31 ♂
- ✓ 2 Flicker 1 ♂ 2 ♀ 3 ♂ 4 ♀ 5 ♂ 6 ♀ 7 ♂ 8 ♀ 9 ♂ 10 ♀ 11 ♂ 12 ♀ 13 ♂ 14 ♀ 15 ♂ 16 ♀ 17 ♂ 18 ♀ 19 ♂ 20 ♀ 21 ♂ 22 ♀ 23 ♂ 24 ♀ 25 ♂ 26 ♀ 27 ♂ 28 ♀ 29 ♂ 30 ♀ 31 ♂
- ✓ 3 Downy 1 hd. 3 hd. 5 hd. 7 hd. 8 hd. 9 hd. 10 hd. 11 hd. 12 hd. 13 hd. 14 hd. 15 hd. 16 hd. 17 hd. 18 hd. 19 hd. 20 hd. 21 hd. 22 hd. 23 hd. 24 hd. 25 hd. 26 hd. 27 hd. 28 hd. 29 hd. 30 hd. 31 hd.
- ✓ 4 White-thr. Sparrow 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 5 House " 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 6 Blue Jay 2' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 7 Chickadee 3 hd. 4 hd. 5 hd. 6 hd. 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 8 Crow 6 hd. 7 hd. 8 hd. 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 9 Hairy Woodpecker 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 10 Cedar bird 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 11 Tree Sparrow 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31'
- ✓ 12 White breasted Nuthatch 25' 26'
- ✓ 13 Purple Finch 26' 27' 28' 29' 30' 31'
- ✓ 14 Bronzed Grackle 28' 29' 30' 31'

CASH ACCOUNT. MARCH.

- | Date | Received. | Paid. |
|---|-----------|-------|
| 8 ⁽¹³⁾ in 9 ⁽¹³⁾ do. 27 [*] at sunset 29 ⁽²⁾ 30 ⁽¹⁾ 31 ⁽¹⁾ | | |
| 8 ⁽¹³⁾ do. 25 [*] 26 [*] 29 [*] 27 ⁽²⁾ 28 ⁽²⁾ 29 ⁽²⁾ 30 ⁽¹⁾ 31 ⁽¹⁾ | | |
| 16 ⁽¹³⁾ hd. 19 ⁽¹³⁾ hd. 22 ⁽¹³⁾ 27 ⁽¹³⁾ 18 ⁽¹³⁾ 19 ⁽¹³⁾ 20 ⁽¹³⁾ 21 ⁽¹³⁾ 22 ⁽¹³⁾ 23 ⁽¹³⁾ 25 ⁽¹³⁾ 26 ⁽¹³⁾ | | |
| 62 in 7 hd. 82 in 9 2 in 10 1 in 11 2 in 14 2 in 15 hd 16 2 in 17 hd | | |
| 8 30+ 9 ⁽⁶⁾ 10 8+ 11 13+ 14 10+ 15 16 16 ⁽¹⁰⁾ 18 ⁽¹⁰⁾ 19 15 28 30 | | |
| 11 hd. 12 hd. 14 hd. 16 hd. 17' 18 19 20' 21 ⁽⁶⁾ 22 ⁽³⁾ | | |
| 11 ⁽²⁾ 14 hd. 16 hd. 19 hd. 20 hd. 21 ⁽²⁾ 25 ⁽²⁾ 26 ⁽²⁾ 27 ⁽²⁾ 29 ⁽²⁾ | | |
| 12 ⁽¹⁾ 14 hd. 16 hd. 19 hd. 24' 25 ⁽²⁾ 27 ⁽²⁾ 28 ⁽²⁾ 29 ⁽²⁾ | | |
| ✓ Blue Jay 25 ⁽²⁾ 26 ⁽²⁾ 27 ⁽²⁾ 28 ⁽²⁾ 29 ⁽²⁾ 30 ⁽²⁾ 31 ⁽²⁾ | | |
| ✓ Downy 28 ⁽²⁾ 29 ⁽²⁾ 30 ⁽²⁾ 31 ⁽²⁾ | | |
| 29 ⁽³⁾ 30 ⁽³⁾ 31 ⁽³⁾ | | |
| 31 ⁽³⁾ | | |

Birds in our Garden, Cambridge.

CASH ACCOUNT. APRIL.

Received.

Paid.

Date.

Received.

Paid.

- ✓ 1 Robin 13²⁸ 2² 3²⁸ + 13²⁸ Sw. Collared 14²⁸
incl. 13²⁸ at noon
- ✓ 2 Song Sparrow 1²⁸
- ✓ 3 Fox " 13²⁸ 13²⁸ in full song 14²⁸
at sunset
- ✓ 4 White Thr. " 1²⁸ 2²⁸ in 3²⁸ in 13²⁸ 14²⁸
at 11:30 a.m.
- ✓ 5 Purple Finch 1²⁸ 2²⁸ 3²⁸ 4²⁸ 13²⁸ 14²⁸
at 11:30 a.m.
- ✓ 6 House Sparrow 1²⁸ 2²⁸ 13²⁸
- ✓ 7 Downy Woodpecker 1²⁸ 2²⁸
- ✓ 8 Blue Jay 1²⁸ 2²⁸ 3²⁸ 13²⁸
- ✓ 9 Bronzed Grackle 13²⁸ 2²⁸ 3²⁸ 13²⁸ 14²⁸
- ✓ 10 Crow 1²⁸ 2²⁸ 3²⁸ 13²⁸ 14²⁸
- ✓ 11 Bluebird 2²⁸ at 11:30 a.m.
- ✓ 12 Flicker 3²⁸
- ✓ 13 Cedar bird 4²⁸

14²⁸ 5²⁸ 13²⁸

Birds in our Garden, Cambridge.

CASH ACCOUNT. MAY.

Date

Received.

Paid.

- ✓ 1. Cat bird 13¹/₂ (Paddy Harris)
- ✓ 2. Robin 29²/₃ 30⁴/₃
- ✓ 3. Canada Warbler 29¹/₂ 30¹/₂ 31¹/₂
- ✓ 4. Starling 29¹/₂
- ✓ 5. Black-throated Green Warbler 30¹/₂
- ✓ 6. Chiffchaff 30¹/₂
- ✓ 7. Flicker 30¹/₂ 31¹/₂
- ✓ 8. Brambling 30⁴/₃
9. House Sparrow 30¹/₂
- ✓ 10. Crow 31²/₃
- ✓ 11. Jay 31
- ✓ 12. Red eye vireo 30¹/₂ 31¹/₂

CASH ACCOUNT. MAY.

Date.

Received

Paid.

Birds in our Garden, Cambridge.

CASH ACCOUNT. JULY.

Date.	Received.	Paid.
✓ 1	Robin 1'2+ 3' 4* 5-5* 93	
2	Orisk 1'2+ 3 young 4' 5-5* 93	
✓ 3	Jay 1' 3' 4' 5-5* 93	
4	Red. eye 1'	
5	House Sparrow 1' 6+ 4' 5-5* 93	
✓ 7	Starling 1' 2' 3' 4' 5-5* 93	
✓ 8	7. Lark 4' 5' 9*	
✓ 9	Crow 4' 5'	
10	Swift 4' 5' 9*	

CASH ACCOUNT. JULY.

Date.	Received.	Paid.
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CASH ACCOUNT. AUGUST.

CASH ACCOUNT. AUGUST.

Date. Received. Paid.

35 ad 25 ad 26 ad 27 ad 28 ad 29 ad 30 ad 31 ad 32 ad 33 ad 34 ad 35 ad 36 ad 37 ad 38 ad 39 ad 40 ad 41 ad 42 ad 43 ad 44 ad 45 ad 46 ad 47 ad 48 ad 49 ad 50 ad 51 ad 52 ad 53 ad 54 ad 55 ad 56 ad 57 ad 58 ad 59 ad 60 ad 61 ad 62 ad 63 ad 64 ad 65 ad 66 ad 67 ad 68 ad 69 ad 70 ad 71 ad 72 ad 73 ad 74 ad 75 ad 76 ad 77 ad 78 ad 79 ad 80 ad 81 ad 82 ad 83 ad 84 ad 85 ad 86 ad 87 ad 88 ad 89 ad 90 ad 91 ad 92 ad 93 ad 94 ad 95 ad 96 ad 97 ad 98 ad 99 ad 100 ad 101 ad 102 ad 103 ad 104 ad 105 ad 106 ad 107 ad 108 ad 109 ad 110 ad 111 ad 112 ad 113 ad 114 ad 115 ad 116 ad 117 ad 118 ad 119 ad 120 ad 121 ad 122 ad 123 ad 124 ad 125 ad 126 ad 127 ad 128 ad 129 ad 130 ad 131 ad 132 ad 133 ad 134 ad 135 ad 136 ad 137 ad 138 ad 139 ad 140 ad 141 ad 142 ad 143 ad 144 ad 145 ad 146 ad 147 ad 148 ad 149 ad 150 ad 151 ad 152 ad 153 ad 154 ad 155 ad 156 ad 157 ad 158 ad 159 ad 160 ad 161 ad 162 ad 163 ad 164 ad 165 ad 166 ad 167 ad 168 ad 169 ad 170 ad 171 ad 172 ad 173 ad 174 ad 175 ad 176 ad 177 ad 178 ad 179 ad 180 ad 181 ad 182 ad 183 ad 184 ad 185 ad 186 ad 187 ad 188 ad 189 ad 190 ad 191 ad 192 ad 193 ad 194 ad 195 ad 196 ad 197 ad 198 ad 199 ad 200 ad 201 ad 202 ad 203 ad 204 ad 205 ad 206 ad 207 ad 208 ad 209 ad 210 ad 211 ad 212 ad 213 ad 214 ad 215 ad 216 ad 217 ad 218 ad 219 ad 220 ad 221 ad 222 ad 223 ad 224 ad 225 ad 226 ad 227 ad 228 ad 229 ad 230 ad 231 ad 232 ad 233 ad 234 ad 235 ad 236 ad 237 ad 238 ad 239 ad 240 ad 241 ad 242 ad 243 ad 244 ad 245 ad 246 ad 247 ad 248 ad 249 ad 250 ad 251 ad 252 ad 253 ad 254 ad 255 ad 256 ad 257 ad 258 ad 259 ad 260 ad 261 ad 262 ad 263 ad 264 ad 265 ad 266 ad 267 ad 268 ad 269 ad 270 ad 271 ad 272 ad 273 ad 274 ad 275 ad 276 ad 277 ad 278 ad 279 ad 280 ad 281 ad 282 ad 283 ad 284 ad 285 ad 286 ad 287 ad 288 ad 289 ad 290 ad 291 ad 292 ad 293 ad 294 ad 295 ad 296 ad 297 ad 298 ad 299 ad 300 ad 301 ad 302 ad 303 ad 304 ad 305 ad 306 ad 307 ad 308 ad 309 ad 310 ad 311 ad 312 ad 313 ad 314 ad 315 ad 316 ad 317 ad 318 ad 319 ad 320 ad 321 ad 322 ad 323 ad 324 ad 325 ad 326 ad 327 ad 328 ad 329 ad 330 ad 331 ad 332 ad 333 ad 334 ad 335 ad 336 ad 337 ad 338 ad 339 ad 340 ad 341 ad 342 ad 343 ad 344 ad 345 ad 346 ad 347 ad 348 ad 349 ad 350 ad 351 ad 352 ad 353 ad 354 ad 355 ad 356 ad 357 ad 358 ad 359 ad 360 ad 361 ad 362 ad 363 ad 364 ad 365 ad 366 ad 367 ad 368 ad 369 ad 370 ad 371 ad 372 ad 373 ad 374 ad 375 ad 376 ad 377 ad 378 ad 379 ad 380 ad 381 ad 382 ad 383 ad 384 ad 385 ad 386 ad 387 ad 388 ad 389 ad 390 ad 391 ad 392 ad 393 ad 394 ad 395 ad 396 ad 397 ad 398 ad 399 ad 400 ad 401 ad 402 ad 403 ad 404 ad 405 ad 406 ad 407 ad 408 ad 409 ad 410 ad 411 ad 412 ad 413 ad 414 ad 415 ad 416 ad 417 ad 418 ad 419 ad 420 ad 421 ad 422 ad 423 ad 424 ad 425 ad 426 ad 427 ad 428 ad 429 ad 430 ad 431 ad 432 ad 433 ad 434 ad 435 ad 436 ad 437 ad 438 ad 439 ad 440 ad 441 ad 442 ad 443 ad 444 ad 445 ad 446 ad 447 ad 448 ad 449 ad 450 ad 451 ad 452 ad 453 ad 454 ad 455 ad 456 ad 457 ad 458 ad 459 ad 460 ad 461 ad 462 ad 463 ad 464 ad 465 ad 466 ad 467 ad 468 ad 469 ad 470 ad 471 ad 472 ad 473 ad 474 ad 475 ad 476 ad 477 ad 478 ad 479 ad 480 ad 481 ad 482 ad 483 ad 484 ad 485 ad 486 ad 487 ad 488 ad 489 ad 490 ad 491 ad 492 ad 493 ad 494 ad 495 ad 496 ad 497 ad 498 ad 499 ad 500 ad 501 ad 502 ad 503 ad 504 ad 505 ad 506 ad 507 ad 508 ad 509 ad 510 ad 511 ad 512 ad 513 ad 514 ad 515 ad 516 ad 517 ad 518 ad 519 ad 520 ad 521 ad 522 ad 523 ad 524 ad 525 ad 526 ad 527 ad 528 ad 529 ad 530 ad 531 ad 532 ad 533 ad 534 ad 535 ad 536 ad 537 ad 538 ad 539 ad 540 ad 541 ad 542 ad 543 ad 544 ad 545 ad 546 ad 547 ad 548 ad 549 ad 550 ad 551 ad 552 ad 553 ad 554 ad 555 ad 556 ad 557 ad 558 ad 559 ad 560 ad 561 ad 562 ad 563 ad 564 ad 565 ad 566 ad 567 ad 568 ad 569 ad 570 ad 571 ad 572 ad 573 ad 574 ad 575 ad 576 ad 577 ad 578 ad 579 ad 580 ad 581 ad 582 ad 583 ad 584 ad 585 ad 586 ad 587 ad 588 ad 589 ad 590 ad 591 ad 592 ad 593 ad 594 ad 595 ad 596 ad 597 ad 598 ad 599 ad 600 ad 601 ad 602 ad 603 ad 604 ad 605 ad 606 ad 607 ad 608 ad 609 ad 610 ad 611 ad 612 ad 613 ad 614 ad 615 ad 616 ad 617 ad 618 ad 619 ad 620 ad 621 ad 622 ad 623 ad 624 ad 625 ad 626 ad 627 ad 628 ad 629 ad 630 ad 631 ad 632 ad 633 ad 634 ad 635 ad 636 ad 637 ad 638 ad 639 ad 640 ad 641 ad 642 ad 643 ad 644 ad 645 ad 646 ad 647 ad 648 ad 649 ad 650 ad 651 ad 652 ad 653 ad 654 ad 655 ad 656 ad 657 ad 658 ad 659 ad 660 ad 661 ad 662 ad 663 ad 664 ad 665 ad 666 ad 667 ad 668 ad 669 ad 670 ad 671 ad 672 ad 673 ad 674 ad 675 ad 676 ad 677 ad 678 ad 679 ad 680 ad 681 ad 682 ad 683 ad 684 ad 685 ad 686 ad 687 ad 688 ad 689 ad 690 ad 691 ad 692 ad 693 ad 694 ad 695 ad 696 ad 697 ad 698 ad 699 ad 700 ad 701 ad 702 ad 703 ad 704 ad 705 ad 706 ad 707 ad 708 ad 709 ad 710 ad 711 ad 712 ad 713 ad 714 ad 715 ad 716 ad 717 ad 718 ad 719 ad 720 ad 721 ad 722 ad 723 ad 724 ad 725 ad 726 ad 727 ad 728 ad 729 ad 730 ad 731 ad 732 ad 733 ad 734 ad 735 ad 736 ad 737 ad 738 ad 739 ad 740 ad 741 ad 742 ad 743 ad 744 ad 745 ad 746 ad 747 ad 748 ad 749 ad 750 ad 751 ad 752 ad 753 ad 754 ad 755 ad 756 ad 757 ad 758 ad 759 ad 760 ad 761 ad 762 ad 763 ad 764 ad 765 ad 766 ad 767 ad 768 ad 769 ad 770 ad 771 ad 772 ad 773 ad 774 ad 775 ad 776 ad 777 ad 778 ad 779 ad 780 ad 781 ad 782 ad 783 ad 784 ad 785 ad 786 ad 787 ad 788 ad 789 ad 790 ad 791 ad 792 ad 793 ad 794 ad 795 ad 796 ad 797 ad 798 ad 799 ad 800 ad 801 ad 802 ad 803 ad 804 ad 805 ad 806 ad 807 ad 808 ad 809 ad 810 ad 811 ad 812 ad 813 ad 814 ad 815 ad 816 ad 817 ad 818 ad 819 ad 820 ad 821 ad 822 ad 823 ad 824 ad 825 ad 826 ad 827 ad 828 ad 829 ad 830 ad 831 ad 832 ad 833 ad 834 ad 835 ad 836 ad 837 ad 838 ad 839 ad 840 ad 841 ad 842 ad 843 ad 844 ad 845 ad 846 ad 847 ad 848 ad 849 ad 850 ad 851 ad 8

CASH ACCOUNT. SEPTEMBER.

CASH ACCOUNT. SEPTEMBER.

Birds in our Garden, Cambridge.

CASH ACCOUNT. OCTOBER.

Date. Received. || Paid

- ✓ Robin 9⁰⁰
- ✓ Chickadee 7⁰⁰
- ✓ Gold. Crest 7⁰⁰
- ✓ Yellow-rump 7⁰⁰
- ✓ Parula 7⁰⁰
- ✓ House Sparrow 7¹⁰
- ✓ Towhee 7⁰⁰

CASH ACCOUNT. OCTOBER.

Date. Received. || Paid.

Birds in our Garden, Cambridge.

CASH ACCOUNT. NOVEMBER.

Date.	Received.	Paid.
✓ 1.	White throat Sp. 5 ¹ ad 9 ¹ ad 12 ¹ ad 13 ² ad	
2.	House Sp. 5 ² 6 ¹ 2 ⁺ 7 ¹ 10 ⁺ 8 ¹ 10 ⁺ 9 ¹ 10 ⁺ 12 ⁴ 13 ⁴ 14 ²	
✓ 3.	Crow 5 ¹ ad. 15 ¹ ad. 16 ³ in jungle. One with dead yellow wing Marbler, pinching its feathers.	
✓ 4.	Goldcrest 6 ¹ ad. 8 ¹ 9 ⁴ 12 ² 13 ⁴ 20 ⁴	
✓ 5.	Chickadee 7 ² 8 ⁵ 9 ³ 12 ² 13 ⁴ 16 ¹ 18 ¹ ad.	
✓ 6.	Goldfinch 7 ² ad. in garden	
✓ 7.	Downy 7 ¹ ad. in Hubbard 1 ¹ 9 ¹ ad. in jungle 12 ¹ 8 ⁴ 21 ¹ 26 ¹ ad.	
✓ 8.	Blue Jay 8 ¹ 12 ⁴ 16 ¹ 17 ¹ 21 ¹ 22 ² on way of meadow	
✓ 9.	Pine Finch 9 ¹ ad. 13 ⁴ in willow by meadow gate	
✓ 10.	Junco 12 ⁶ 20 ⁴ 21 ¹ 22 ² 23 ⁵ 24 ¹	
✓ 11.	Yellow-rump 7 ¹ 12 ¹ 16 ¹ 17 ¹ 18 ¹ 19 ¹ 20 ¹ 21 ¹ 22 ¹ 23 ¹ 24 ¹ 25 ¹ 26 ¹ 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 12.	Hairy Woodpecker 12 ¹ 13 ¹ 14 ¹ 15 ¹ 16 ¹ 17 ¹ 18 ¹ 19 ¹ 20 ¹ 21 ¹ 22 ¹ 23 ¹ 24 ¹ 25 ¹ 26 ¹ 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 13.	Fox Sparrow 13 ¹ 20 ¹	
✓ 14.	Redpoll 16 ¹ 17 ¹ 18 ¹ 19 ¹ 20 ¹ 21 ¹ 22 ¹ 23 ¹ 24 ¹ 25 ¹ 26 ¹ 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 15.	Shufeldti Junco 20 ¹ 21 ¹ 22 ¹ 23 ¹ 24 ¹ 25 ¹ 26 ¹ 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 16.	Flicker 22 ¹ 23 ¹ 24 ¹ 25 ¹ 26 ¹ 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 17.	Canada Nutcracker 23 ¹	
✓ 18.	Hermit Thrush 26 ¹ under beech 27 ¹ 28 ¹ 29 ¹ 30 ¹	
✓ 19.	Herring Gull 27 ¹	

CASH ACCOUNT. NOVEMBER.

Date.	Received.	Paid.
15 ² 20 ² 21 ¹ ad 22 ¹ ad 23 ¹ ad 24 ¹ ad 25 ¹ ad 26 ² 27 ²		29 ² 30 ²
15 ⁴ 16 ⁵ 17 ⁶ 18 ⁴ 19 ² 21 ⁴ 23 ¹⁵ 24 ⁴ 25 ¹ 26 ² 27 ⁴ 29 ⁴ 30 ⁸		
17 ¹ 20 ² 21 ² 29 ²		
22 ² 24 ¹ ad. 25 ² 26 ¹ 27 ² 29 ¹ ad.		
20 ¹ ad 21 ² 22 ³ 25 ¹ 26 ¹ 27 ¹ 29 ¹ ad.		
30 ¹ ad.		
24 ¹ ad 26 ¹ ad 29 ¹ ad.		
25 ² 28 ⁵ 26 ⁴ 27 ⁵ 29 ⁴ 30 ⁴		
26 ¹ 29 ¹ ad.		
23 ¹ 25 ¹ 27 ¹ 29 ¹ 30 ¹		
29 ¹ in lilacs near lawn 30 ¹ in lilacs near house		

Birds in our Garden, Cambridge.

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid.
✓ 1	Goldcrest	10 hds. 17 hds.	
✓ 2	Blue Jay	1 st 4 2 7 hds 8 9 hds. 12 hds. 13 hds. ykts.	
3	House Sp.	130+ 220+ 325+ 410+ 56+ 70 11 sevs. 12 Sevs.	
✓ 4.	White Throat Sp.	21 ad 3 hds. 4 hds. 71 hds 13 hds.	
✓ 5-	Tanager	2 nd 32 4 2 5 hds. 8 3 6 8 10 3 6 8 13 2 29 ⁱⁿ .	
✓	Crow	3 Sev. 4 ^{on} 5 hds 8 ^{on} 10 3 13 hds 17 3	
✓ 7.	Chickadee	4' 7 ② 10 ④ 11 hds. 12 hds. 13 hds. 14 hds.	
✓ 8.	Downy W.	4 4 7 hds 8 hds 9 hds. 10' 11' 13 hds	
✓ 9	White b. Nuthatch	5 ^{1 headed} in long clens.	
✓ 10	Finch	9' in den & perched there by 9 Sparrows likewise	21' 23' eating Puffed.
✓ 11	Sparrow Hawk	9 o chased Flicker over den & then perched awhile in big tree chestnut.	
✓ 12	Hairy W.	17 ♂ in Calalaha by Mus.	
✓ 13	Purple Finch	17 3 gray falling Parkmann apples	18 1 st 20 2 ^{do}
✓ 14	Redpoll	26 singles could hear distant calls in Hubbard Park.	

CASH ACCOUNT. DECEMBER.

Date.

Received.

Paid.

21' 22' 27'

31'

13⁸+14⁶+17⁴⁰⁺_{at sent.} 19¹⁰⁺+20⁸+22⁴+23¹⁰+27⁶ 28'¹² 29⁶ 30⁶

15'^{bird eating} nightshade berries 17^{1 as at} millet 22^{bird at} loc 23^{bird} 26^{bird} 27' 29^{bird} 30^{bird}

rhythmic sounds by steady windings, air currents 31'^{bird eating} 31'^{bird}

15'^{at} 16'^{do.} 17'^{do} 19'^{do} 23' 27' 29' 30'^{at} 31'

15^{hd} 18^{hd}.

27'^{do} 29' Near trees freshly on web, evidently
by feeding 30'^{in basket} near tree

31'^{gray birds in red cedar}
^{or} muscivorous gulls

Bethel, Maine + June 24-26
SUMMARY OF CASH ACCOUNT.

Received.

Paid.

Date.

Dollars. Cts.

JAN. Robin 24⁸/₃₂
Hermie 24³/₃₂
FEB. Olive back 24¹/₃₂
Vary 24⁶/₃₂
Br. Creeper 24¹/₃₂
Nashville W. 24⁵/₃₂
MAR. Chestnut S. " 24⁶/₃₂
Canada " 24⁶/₃₂
Redstart " 24³/₃₂
Dove bird " 24⁴/₃₂
APRIL Red eye V. 24¹/₃₂
Goldfinch 24²/₃₂
Purple Finch 24²/₃₂
Vesper Sp. 24¹/₃₂
MAY Tanager 24¹/₃₂
White Thr. " 24¹/₃₂
Song " 24¹/₃₂
Chiffy 24²/₃₂
JUNE Least Fly 24¹/₃₂
Black bell Gull 24¹/₃₂
Nighthawk 24¹/₃₂
Hairy woodpecker 24¹/₃₂
JULY House Wren 25¹/₃₂
Wandering Wren 25¹/₃₂
Tanager 24⁴/₃₂
AUG.
SEPT.
OCT.
NOV.
DEC.

Manchester, N.Y. H. Sea
MEMORANDA. July 1-3

Dana Woods & House

Robin 2¹/₂
Pine Warbler 1¹/₂ 2¹/₂
Chiffy 1 young 2¹/₂
Song Sparrow 1¹/₂ 2¹/₂ (Dana & House)
F. Wren 1¹/₂
Crow 1 nest 24
Green Heron 1¹/₂
Herring Gull 150 + mostly 2 do
adults
Spotted Sandpiper 2¹/₂
White br. Nuthatch 2¹/₂
Redstart 2¹/₂
Tree Swallow 2¹/₂
Kingfisher 2¹/₂ over
ocean

Glendale, Mass. July 10-31

C = Chestnutwood S. = near Studio
M = McCloskey's place

MEMORANDA

Date.

Dollars. Cts.

1. Bluebird. 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
2. Robin. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
3. Wood Thrush. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
4. Hummer. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
5. Tree bird. One pair only at C. ♂ sang last on 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
6. White Br. Nuthatch. Heard at C on 12, 13, 14, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31
7. House Wren. Breeding pair at C. Nest in box near Studio. ♂ sang ceaselessly up to 25th. Only occasionally, but daily, after that. Young out by 23rd. Another ♂ heard near M. on 24th & 25th.
8. Chickadee 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
9. Tricolored. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
10. Black Thr. Green W. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
11. Black & white. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
12. Magnolia. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
13. Yellow-rump. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
14. Black Thr. Blue. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
15. Oven bird. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
16. Sea Wren Thrush. 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
17. Maryland Yellow. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
18. Redstart. 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

Glendale, Mass., July 10-31.

MEMORANDA.

Date.

Dollars. Cts.

19. Cedar bird. One or two noted almost daily at C. Nest in apt. tree by Studio with one fine hatched young on 19th. The young on many nest day & surely hatched by King bird then.
20. Junco. 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
21. Red-eyed Vireo. One to four ♂♂ heard daily at C. & saw elsewhere. Singing freely through woods.
22. Yellow Thr. V. 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
23. Solitary V. 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
24. Kingbird V. 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
25. Barn Swallow. 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
26. Dove. 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
27. Purple Finch. At C only. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
28. Goldfinch. 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
29. White Thr. Sparrow. 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
30. Song S. 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st
31. Chipping. Two or three breeding pairs at C. ♂♂ sang throughout month but only listlessly towards its close.
32. Tree Sp. 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

Glendale, Mass. July 10-31.

MEMORANDA.

Date.	Dollars.	Cts.
33. Indigo bird. Two pairs at C. Saw elsewhere 38 m fresh song.		
34. Towhee 19 th near 23 rd calling		
35. Bal. Oriole. at C. 15 th young calling 17 th do 20 th		
36. Crows. noted almost daily, never more than 3 or 4.		
37. Blue Jay 28 th 31 st at C.		
38. King bird. Pair seen daily, about nest in apple tree just behind Studio building, egg in it by 25 th		
39. Crested Fly. Pair " or heard daily in apple trees near house		
40. Phoebe. Pair at C. & another at M. One 3 rd song Sept. on 24 th		
41. Wood Pewee. ♂ in woods behind S. sang freely all day up to 25 th fully on 26 th & 27 th , fairly & but feebly after that. Another heard near Hager's P. on 30 th		
42. Stiffphoozle. 12 th 13 th 19 th 26 th Heard from C. at C. after off, westward.		
43. Swift. 11 13 14 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		
44. Hummer. 10' 13 th 15 th 16' 17' 18' 20' 22 nd 23 rd 25' 30 th		
45. Downy W. 25 th at 29 th near Knight		
46. Flicker 11 th 12 th 13 th 14 th 15' 17' 18' 19' 27'		
47. Broad-wing Hawk 10 th 20 th over back Swamp.		
48. Red-shoulder " 12 th 20 th 18 th 20 th 23 rd 24 th 27 th perched in tree near house & by roadside.		
49. Barred Owl. 24 th Called white. at about 20 th time, at rear of Studio.		
50. Green Heron 15 th flying low 24 th heard in back Swamp.		
51. Wilson's Thrush 18 th at P. Another near house about 25 th		

Glendale, Mass. August 1-9

MEMORANDA.

Date.	Dollars.	Cts.
1. Robin 1 st at C. 3 rd do. 4 th do 5 th do 6 th do 7 th do 8 th do.		
2. Hermit. 1 st 2 nd 3 rd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
3. Cat bird 1 st 4 th 5 th 6 th 7 th		
4. House Wren 1 st 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
5. Chickadee 2 nd 8 th		
6. D. Vireo 2 nd		
7. Cedar Bird 1 st 6 th 7 th		
8. Tanager 2 nd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
9. Red-eye V. 1 st 2 nd 3 rd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
10. Solitary " 2 nd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
11. Goldfinch 1 st 2 nd 3 rd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
12. Song Sp. 1 st 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
13. Chaffy " 1 st 4 th 5 th 6 th 7 th 8 th 9 th		
14. Field " 1 st		
15. Indigo bird 1 st 4 th 5 th 6 th 7 th 8 th 9 th		
16. Crow 1 st 3 rd 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
17. Jay 1 st 5 th		
18. King bird 1 st 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
19. Crested F. 1 st		
20. Wood Pewee 1 st 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
21. Swift 1 st 4 th 5 th 6 th 7 th 8 th 9 th 10 th 11 th 12 th 13 th 14 th 15 th 16 th 17 th 18 th 19 th 20 th 21 st 22 nd 23 rd 24 th 25 th 26 th 27 th 28 th 29 th 30 th 31 st		
22. Flicker 2 nd 6 th		
23. Partridge 1 st 6 th		
24. Phoebe 2 nd		

MEMORANDA.

- 25 Mniotilta 3 ^{2 at}/_{x one} 4 ^{at}/_{x base}
- 26 American bird 3 ^{only}/_{x all over}
- 27 Downy W. 22 3' 5' 6' 8 hrs 9 hds
- 28 Barn Sw. H²/6
- 29 Nuthatch 5-hd. 6 hds. 8 hrs 9 hds.
- 30 Hummer 5' 6'
- 31 Least Fly. 7 hds
- 32 House br. Grosbeak 8 ^{all note}/_{heard}
- 33 Red Oriole 8' 2 hrs
- 34 Whippoorwill 8 x by D.C.T.
- 35 Crows Blackbird 9 glendale Sta.

BILLS PAYABLE.

1. Chickadee 18* 19*
2. Black & White Creeper 17^{juv} 19²
3. Worcester Warbler 17^{juv}
4. Prairie " 17^{ad. feeding young one today} 19*
5. Maryland Yellowthroat 17^{ad.} 19²
6. Cedar Bird 16^{ad.} 17^{ad.}
7. Barn Swallow 16⁸⁺ 17²⁰⁺
8. Chipping 17⁶⁺ 19²⁰⁺
9. Song Sparrow 16^{1 at} 17^{1 at} 18^{1 at} 19^{2 at}
10. Starling 17^{89 at} 19^{20 at}
11. Crow 17^{juv.}
12. Jay 17^{2 juv 5 at} 18^{ad.} 19²
13. Flicker 17^{ad.}
14. Wood Pewee 17^{1 at} 19⁶⁺ scattered widely mostly in fresh pine woods,
15. Swift 16^{ad.} 17^{1 at}
16. Hummer 16^{1 wt.} 17^{2 wt.} 18^{2 wt.} 19^{2 wt.}
17. Kingfisher 17^{1 at} 19^{1 at} Harris Pond.
18. Green Heron 17⁶⁺
19. Spotted Sandpiper 17^{3 at} 19^{20 at}
20. Common Tern 17^{5 juv.} 18^{5 juv.} 19^{20 juv.}
21. Laughing Gull 17^{1 at} 19^{20 at}
22. Herring " 17^{1 at}
23. Meadow Lark 16^{1 at} 19^{20 at}
24. House Sparrow 17^{1 at} 19^{20 at}
25. Robin 17^{1 at} 19^{20 at}
26. Rock Dove 17^{1 at} 19^{20 at}

Colt's Harrows. August 19-21

BILLS PAYABLE.

Date.	NAME.	Dollars.	Cts.
-------	-------	----------	------

Robin 20 Sw.

Pine Warbler 20² 20¹

Maryland. Yellow-throat 20'

Cat bird 20'

Chipping 20 Sw.

Crow 20 many close about house just after sunrise coming on barred house 21 dr

Dorsey W. 20'

Sweet 20² on Eagle Pond.

Night Heron 21 hr. similar after midnight

Great Blue " 29' 20 Sw. after midnight 21 at night

Laughing Gull 20 Sw. had in early morning 21 dr

Common Tern 21-22 a few on wing Harrows

BILLS RECEIVABLE.

Date.	NAME.	Dollars.	Cts.
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BILLS RECEIVABLE.

Date. NAME. Dollars. Cts.

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 CITY. *Cambridge*
 TELEPHONE No. *5335 - M. 5512 Me.*

NAME. *Mrs. Charles E. Little*
 STREET, No. *(Rebecca Parker (Sargent) Little)*
 CITY. *Merrimac, Mass.*
 TELEPHONE No.

NAME. *Mr & Mrs. D. W. Gould*
 STREET, No. *(Clara Augusta (Sargent) Gould)*
 CITY. *(Daniel Warren Gould)*
Merrimac, Mass.
 TELEPHONE No.

NAME. *Charles Amos Hayes*
 STREET, No.
 CITY. *Merrimac, Mass.*
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NAME. *Percy G. F. Harris*
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TELEPHONE No.

Victims of my gun.

Gray Squirrels.

May or June. 2 shot near barn

September 11. 1 " " Barrett Spring

" 13. 1 " " foot of lane.

" 18. 1 " " " "

" " 1 " in Pulpit R. woods.

" 20. 1 " in oaks by peach orch.

" 25. 1 " in dooryard at noon

" 30. 1 " " Cedar Park

October 3. 1 " " oaks by peach orch.

" 7. 1 " " Hickory near barn.

" 17. 1 " " Birch, Cedar Park

" 24. 1 " " Bungabrows.

Partridge

October 12. 1 shot in Berry Pts. (sitting)

" 14. 1 juv " " Cedar Park (")

" 21. 2 " " " Birch Field (flying)

" 27. 2 " " " " " "

November 9. 2 " " " hemlock, Pulpit R.

Pheasant

October 28. 2 ad. shot in Berry Pts. (flying)

November 10. 2 juv " " " " "

Fish - Oct 7.

Bats in shed loft, Concord.

CRICKET THERMOMETERS.

My little cousin and I used to listen every evening to the chirping of the crickets, writes a *Companion* contributor, and we found that the hotter it was the faster they chirped, and the cooler it was the slower they chirped, which shows very well that hot weather agrees with crickets and makes them more lively. We thought we could use them for a thermometer—a very useful device if we were ever cast away on a desert island, and did not happen to save a thermometer from the wreck. *(Yonah's Companion Aug. 1893)*

We counted every evening the number of times the crickets chirped in a minute, and wrote it down on a piece of paper, and put beside it the height of the thermometer, till pretty soon we had formulated a rule by which to find the temperature. If a caller said, "I wonder how hot it is," I would take out my watch, count the chirps of the crickets for a minute, and then tell my visitor, much to his surprise, the exact degree of temperature.

Our rule was this. When the crickets chirp one hundred times a minute, the thermometer will read sixty-four degrees, and for every five additional chirps one degree is to be added.

Thus one evening in August, I found that the crickets were chirping one hundred and thirty times a minute. One hundred chirps is equal to sixty-four degrees; in thirty chirps more there are six fives, so I added six degrees to sixty-four, which made seventy degrees.

My cousin and I tried it a good many times, and compared our cricket thermometer with a real thermometer, and always found the crickets

exactly right. It is like counting a sick person's pulse, and is good practice for boys, and perhaps girls, too, who hope to be doctors.

There are many different kinds of crickets, and perhaps the Western crickets are more lively than the ones we have here near the old city of Boston, so each person will have to make his own rule.

The cricket that we made use of is a very pretty pale-green fellow that lives in flowering bushes and vines, and especially delights in honeysuckles. In fact, his name, which is *Ecanthus*, means a dweller among flowers. He is far superior in looks to the plain black cricket that lives under stones and does not begin to chirp until summer is nearly gone.

My cousin and I were very anxious to see our little green friends while they were chirping. At first it was hard to tell where the sounds came from, but soon we saw two or three crickets with their great gauzy wing-covers raised high and rubbing together, as if the wing-covers were knives they were sharpening.

Every time they rub the wing-covers together the sound is made, for it is not made, as we might suppose, by their mouths.

